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ADMINISTRATION REPORT

OF THE

MADRAS MUNICIPALITY

FOR

1880.

MADRAS:
PRINTED AT THE LAWRENCE ASYLUM PRESS, MOUNT ROAD,
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1881.

CONTENTS.

I.—GENERAL.

	Page.		Page
Meetings	1	Subjects considered	1
Executive Officers	ib.	Imperial License Tax..	2

II.—FINANCIAL.

Receipts and Expenditure	2	Workshops...	3
Water Works Loan	3	House Services of Water Supply ...	4
Stores	ib.	Auditors' Report	ib.

III.—COLLECTION OF TAXES.

Tax on Arts, Professions, &c.	4	Tax on Vehicles and Animals	5
Arrears	ib.	Tax on Vehicles without Springs ...	ib.
Tax on Houses, Buildings and Lands ...	ib.	Tolls	ib.
Payments for Occupation of Municipal Lands	5	Tax on Liquor Shops	ib.
Water Tax	ib.	Miscellaneous Collections...	ib.
Lighting Tax	ib.	Sewage Farms	6

IV.—PURPOSES OF THE MUNICIPAL ACT.

Education	6	Main Drains	8
Hospitals and Dispensaries	ib.	River Cooum and Canal Drains. ...	ib.
Public Health—Births	ib.	Water Supply	ib.
—Deaths	7	Roads	9
Vaccination	ib.	Public Parks	ib.
Conservancy	ib.	Avenues	ib.
Drainage	ib.	Census	ib.

APPENDICES.

I.—Statement of Receipts and Disbursements with Auditors' Report and Order of Government thereon 10

(a)—The Acting President's Review of the Auditors' Report and the Order of Government thereon 19

II.—Report of the General Department 23

III.— Do. Revenue Department 40

IV.— Do. Public Works and Conservancy Department 66

V.—Vital Statistics... 114

VI.—Census of Madras—1880-81 157

MUNICIPALITY OF MADRAS.

REPORT OF THE PRESIDENT FOR THE YEAR 1880.

I.—GENERAL.

Meetings.—There were 5 General and 3 Special Meetings of the Commissioners during the year, and the Standing Committee sat 23 times.

2. **Executive Officers.**—Mr. L. R. Burrows, the President, being compelled to take furlough on Medical Certificate to England, Mr. A. T. Arundel was appointed to act during his absence.

3. **Subjects considered.**—In addition to the usual routine of business several other subjects of importance attracted attention and discussion. The Government of India Bill for exempting Military officers and public buildings from Municipal taxation was discussed with much interest, and a Memorial of protest against it was drawn up by a Committee of the Commissioners and forwarded through the Madras Government to the Government of India. The Act as finally passed by the Government of India is free from some of the features that excited the strongest opposition. The Government have under this Act taken power to pay to the Municipality out of Imperial revenue the salary tax on Military officers (if levied) and also the taxes that would be payable by them on account of carriages and animals for whatever purpose kept, excepting only any horse required for Military duty. They have also taken power to fix by an officer of their own a sum to be paid to the Municipality in lieu of the taxes payable on public buildings and other property of Government. The sum so fixed is that which such officer shall from time to time determine to be fair and reasonable. The Viceroy of India has requested in a minute that this power may be exercised with consideration. It has not yet been put into force.

4. The reports on the embezzlement of House Tax collections by the Conicopillay, Lakshman Sing, in 1879, which have already been published in the Administration Report for 1879, were finally disposed of by the Commissioners, and it may here be recorded that the offender Lakshman Sing was finally arrested in March 1881 and was sentenced in the High Court to rigorous imprisonment for seven years and to a fine of Rs. 3,000. Another subordinate, named Teruvengada Mudali, had previously been convicted for petty embezzlement of a similar character and sentenced to four months' rigorous imprisonment and a fine of Rs. 100. The defects which the enquiries into this case revealed in the machinery of the House Tax Department led to the appointment of a Committee to examine into its working, and to suggest improvements. The report of the Committee will be found in the Appendix, together with the resolution of the Commissioners adopting it. The new system of which the main feature is that each householder is to have only one opportunity of paying his house tax at home, failing which he must pay it at the Office, did not come into force till the close of the year under report. At the time I write, however, it has been nearly six months in working and has achieved a success I did not anticipate until a much longer period had elapsed.

5. The unfortunate state of the Municipal finances brought about by the heavy charges thrown by Government on the Municipal revenue for Police and for Hospitals was the subject of much discussion by the Commissioners. The most rigid economies in administration merely resulted in saving rupees by hundreds where the deficit was reckoned by thousands. This unsatisfactory condition of affairs was happily brought to a termination shortly after the close of the year under report when the kindly interest in Municipal affairs evinced by the late Governor, the Right Hon'ble W. P. Adam, was followed by considerate and welcome

concessions from the Government; the State claims for Police and Hospitals amounting to Rs. 70,108 were withdrawn and the deficit was replaced by a small surplus.

6. The completion of Mr. Jones's new system of drainage in a small section of the Town, and the report upon the entire scheme for Black Town, came before the Commissioners during the year, but in the then gloomy condition of financial affairs all discussion was postponed.

7. **Imperial License Tax.**—The Municipality were relieved during the year from the burden of assessing and collecting this tax. The management rested with the Municipality for three years, from 1878 to'1880, during which time the receipts were Rs. 1,76,218-4-9 and the charges Rs. 26,429-13-11. In 1880 the receipts were Rs. 40,605-2-9 and the charges Rs. 7,012-7-5. The net result of the administration is a loss to the Commissioners of Rs. 902-5-10.

II.—FINANCIAL.

8. In the course of the year strenuous efforts were made to comply with the reiterated requirements of Government to meet the financial deficit by stringent economy and by reduction of establishment. By cutting down the allotments, chiefly for roads which could ill afford it, a saving of Rs. 15,000 was effected, and a further saving of Rs. 9,000 was made by reductions in Establishment. The chief change in establishment was effected by pensioning the President's Office Assistant on Rs. 300, and employing a Head Clerk on Rs. 80 in his place. With respect to other reductions it may be remarked that they are possible during a time of pressure when works are arrested in order to save money, but that as soon as the normal condition of affairs is resumed, a renewed expenditure becomes necessary. All the economies however which the Commissioners were able to effect made but trifling impression on the amount of the deficit.

Receipts and Expenditure.—The Receipts and Charges of the year were as follows:—

	Receipts. Estimated.			Actuals.		
Revenue and Receipts...	7,43,474	0	0	7,56,800	9	8
Suspense account ...	.....	...	...	1,23,751	12	0
Imperial License Tax...	.....	...	...	91,673	13	11
				9,72,226	3	7
Opening balance ...	68,538	9	0	68,538	9	0
Total...	8,12,012	9	0	10,40,764	12	7

		Charges. Estimated.	Actuals.		
Expenditure budgeted for ...		8,82,120	7,84,967	4	0
Not budgeted for—					
Choolay Market	1,000-0-0				
Imperial License Tax	93,508-2-5		94,508	2	5
Suspense	———		1,27,887	2	5
			10,07,362	8	10
Closing balance ...			33,402	3	9
Total...		8,82,120	10,40,764	12	7

It will be seen that the actual net receipts exceeded the estimate by over Rs. 13,000. This was due to slightly increased receipts under all the principal heads of taxation. The increase would have been still greater had there not been a falling off in the nominal receipts for "Services to Individuals," which will be explained in the proper place.

The closing balance of Rs. 33,402-3-9 is not to be regarded as showing a clear surplus to this amount on the transactions of the year, as the outstanding liabi-

lities must be taken into account. At the close of the year these liabilities stood as follows:—

	Rs.
Due to Government:—	
Payment for Red Hills Water for 5 years	27,278
Contribution to Hospitals	12,000
Contribution towards Police	59,980
	99,258
Required out of closing balance for unfinished works of 1880 ...	23,496
	1,22,754

With regard however to these liabilities it is to be noted that payment for the first item, viz., Red Hills Water, Rs. 27,278, was deferred by Government till 1881, and that an allotment has been provided in the Budget for 1881 accordingly. The other two items, viz., Rs. 12,000 for Hospitals and Rs. 59,980 for Police, formed a charge which there was no prospect of paying, but as already explained (para. 5), the Government have considerately withdrawn these charges indefinitely. There thus remains only the provision for unfinished works of 1880 to be completed and paid for in 1881, and deducting this sum, Rs. 23,496, from the closing balance, a clear surplus is left of Rs. 9,906.

In welcome contrast therefore with the preceding year 1879 when the closing liabilities were Rs. 50,644, the Municipal accounts have been closed for 1880 with a balance of Rs. 33,402, of which Rs. 9,906 is available for allotment to useful works in 1881.

The Commissioners however must not consider that their anxieties are at an end, and that the present gleam of light is of necessity the forerunner of a clear financial future. The demands of Government upon the Municipal revenue for contributions to Police and to Hospitals have, it is true, been withdrawn not only for 1880, but also for 1881. It is obvious however that unless the City of Madras is to continue to be favoured by Government with these concessions, some means must eventually be found to meet the charges that may legally be imposed as a contribution towards the up-keep of the Police.

As the Municipal revenue at present stands, I have no hesitation in stating emphatically that the charge of about Rs. 80,000 for the Police cannot be paid without abandoning the ordinary essentials of sanitation and conservancy to an extent which neither the Government nor the Commissioners could in any way tolerate. The demands therefore which Government are legally entitled to make, together with those other demands for public improvements to the City in water supply and in drainage which are imperatively required, indicate unmistakably a necessity that the Commissioners have recognized already, viz., that the Municipal revenue must be largely increased.

9. **Water Works Loan.**—This loan contracted in the years 1869 to 1874 amounts to Rs. 14,30,000; against this must be set off the amount realized up to date by the Sinking Fund, viz., Rs. 3,13,185. The Sinking Fund at 2 per cent. on the whole loan is invested from time to time in Government Securities as it accumulates. The whole amount of the loan will be cleared off by the Sinking Fund by the year 1899. The interest payable to Government on the loan is 4 per cent.

10. **Stores.**—The value of stores in hand, bought in the local market and received from England during the year, was Rs. 98,020. The stores issued during the year were valued at Rs. 54,275, leaving Rs. 43,745 as the nominal value of the stores in hand. A new Storekeeper took charge at the close of the year, and the value of stock examined by him and in hand at the end of the year amounted to Rs. 55,463.

11. **Workshops.**—The amount credited under this head was Rs. 68,410 and the amount debited was Rs. 77,481, leaving a balance transferred for recovery in next year of Rs. 9,071. As a matter of fact, the profits were considerable but

charges for certain unfinished private works were outstanding in the books at the end of the year, and had to be deducted in striking the balance for the year.

The Workshops have been improved and rendered safer by raising the boundary wall and by a few additions and alterations. The chief piece of new work turned out during the year was an iron boat costing Rs. 1,204. It is 32 feet long by 8 feet broad and 3 feet deep, capable of holding in two tiers 72 night-soil buckets to be conveyed by canal to Manally. The old wooden boats were almost worn out and moreover carried only 38 buckets each. The iron boat has proved so successful that others will be built as soon as possible.

12. **House Services of Water Supply**—The number of house services laid on at the expense of the householders desiring the water within their premises, was 241 in 1880, as compared with 158 during 1879. The receipts for this work amounted to Rs. 1,270-3-3. The total number of house services is now 698.

13. **Auditors' Report**—The Auditors' report, and comments thereon are printed in the Appendix. The Auditors were invited to make suggestions as to certain matters of account and book-keeping, and some of their proposals can be adopted with advantage.

III.—COLLECTION OF TAXES.

14. **Tax on Arts, Professions, &c.**—The demand for 1880 was Rs. 51,339. The average for the previous three years was Rs. 1,41,072. As the Commissioners are well aware, the great decrease in the year under report was due to the decision of the High Court that actual income must be the criterion for taxation. The current collections amounted to Rs. 42,450, and Rs. 4,607 were remitted, leaving a balance of only Rs. 4,288 in arrears, of which only about Rs. 1,000 is capable of realization.

The number of persons liable to the tax was 2,745. A great improvement is noticeable in the readiness with which the tax was paid as only 879 summonses were issued against 6,073 in 1879. Moreover only 3 cases were actually brought before the Magistrate and convicted, the rest having paid up before the time of hearing. In 1879 the number of cases actually prosecuted before the Magistrate was 520.

Arrears.—Great efforts were made to clear off the old arrears of previous years, the bulk of which were irrecoverable. These arrears were due to the incompetence of the late Superintendent who has been replaced by a more efficient officer. Arrears to the amount of Rs. 10,877 were collected during the year. The accounts of 1875 and 1876 have now been finally closed, while only a few trifling amounts are still recoverable for 1877-78. The closing of these old accounts has been a work of labour and time, and it is satisfactory to know that but little more remains to be done.

15. **Tax on Houses, Buildings and Lands**—This was levied at the maximum rate of 10 per cent. The total demand was, current Rs. 3,46,069, arrears Rs. 28,979, or in all Rs. 3,76,048. The collections were, current Rs. 3,33,772, arrears Rs. 19,933, in all Rs. 3,53,706, of the remainder there were, current remissions Rs. 5,833, arrear remissions Rs. 6,908. The outstanding balance is therefore, current Rs. 6,463, arrears Rs. 2,137, or in all Rs. 8,600. The former Superintendent of this department was removed for negligence in connection with Lakshman Sing's fraud, and his successor has worked well in bringing collections up to date. A very great improvement has taken place in the promptness of realization. The uncollected balance at the end of the year, which is Rs. 6,463, had for the last three years averaged Rs. 25,208, or four times as much. The number of warrants of distress issued during the year was 14,081, of which 12,307 were settled before execution, and 2,322 before sale of distrained property. In 1879 the number of warrants issued was 12,489, of which only 6,624 were executed before distraint and 4,399 before sale of distrained property. The increase in the number of warrants issued in 1880 is due to the prompt measures taken to ensure speedy collection, but a very great improvement is exhibited in the number of payments before execution and before sale.

16. **Payments for occupation of Municipal Lands.**—These realized Rs. 9,761 against Rs 9,710 in 1879. The outstanding balance is Rs 1,249.

17. **Water Tax.**—This is levied at 4 per cent. on the annual value of houses, buildings and lands within 150 yards of a public fountain. This limitation is the result of the High Court decree in the case of Johnstone and Branson *v.* the Municipality. The Government have however passed an amending Act to enable the Commissioners to levy the water tax on all premises throughout the City at whatever distance from a tap or fountain until the 1st January 1884. This Act received the assent of the Viceroy on the 8th April.

The demand of the Water Tax was, current Rs. 1,01,566, arrears Rs. 9,062, total Rs. 1,10,628. The collections were, current Rs. 94,147, arrears Rs. 7,098, total Rs. 1,01,245. The remissions were, current and arrears Rs. 2,449. The outstanding balance is, current Rs. 6,351, arrears Rs. 583. Of the current balance a considerable amount will have to be remitted.

18. **Lighting Tax.**—This is levied at 1¼ per cent., the maximum being two per cent. An increase in the rate must shortly be made if further extensions of street lighting to any appreciable extent are to be carried out. The demand was, current Rs. 42,212, arrears Rs. 2,200. The collections were, current Rs. 40,449, arrears Rs. 2,055, total Rs. 42,504. The outstanding balance is, current Rs. 1,037, arrears Rs. 148.

19. **Tax on Vehicles and Animals.**—The Chief Inspector of this department and one Deputy Inspector were dismissed for fraudulent practices. In order to check the accuracy of the returns made by the Deputy Inspectors, the Overseers of the Public Works Department were ordered to send in independent returns of all persons keeping carriages and animals. Rewards were given for the detection of cases not reported by the Deputy Inspectors. The result of this system of check was apparent in the proceeds of the Tax, which rose in 1880 to Rs. 45,675 for the current demand, as compared with Rs. 43,595 in 1879. The collections of arrears in 1880 amounted to Rs. 573, making a total collection of Rs. 46,247 against a budget estimate of Rs. 43,000. All that now remains is to insist that subsequent collections realize at least an equal amount, or that detailed explanation be given for every falling off.

20. **Tax on Vehicles without Springs.**—7,070 Carts were registered during the year against 6,863 in 1879. The increase is probably due to the closer check exercised by the Inspector on the subordinate staff. The receipts were Rs. 14,133 against Rs. 13,765 in 1879. The Budget Estimate was Rs. 13,000.

21. **Tolls** were as usual let out on contract and realized Rs. 38,200 against Rs. 44,200 in 1879. The cause of the falling off is unknown, but for 1881 the contract has again risen to Rs. 42,200.

22. **Tax on Liquor Shops.**—The demand under this head was Rs. 14,015, and the collections Rs. 13,621, including Rs. 241 arrears. Rs. 137 were remitted. Of the balance Rs. 498, about half is irrecoverable. The collections in 1879 were Rs. 13,196.

23. **Miscellaneous Collections.**—Fees for dangerous and offensive trades, markets, &c., realized Rs. 8,805 against Rs. 8,685 in 1879. It may be of interest to note that there are:—

28 Markets,	8 Camphor-boiling houses,
28 Lime kilns,	48 Pottery kilns,
28 Indigo-dyeing yards,	965 Hack stables,
7 Tanneries,	15 Cart stands,
97 Oil-boiling houses,	285 Firewood depôts,
31 Brick kilns,	148 Timber depôts,
19 Firework shops,	94 Oil mills.

Rent of Municipal lands yielded Rs. 4,025 against Rs. 3,406 in 1879.

The sale of rubbish and night soil realized Rs. 4,545 against Rs. 4,877 in 1879. The public markets brought in Rs. 7,247 against Rs. 6,289 in 1879.

Slaughter house fees were Rs. 7,736 against Rs. 7,550 in 1879. The total number of sheep slaughtered in the three public slaughter houses was 3,35,933 against 3,42,014 in 1879. The only slaughter house for cattle is at Perambore where 10,607 were slaughtered against 9,072 in 1879. There are two small private slaughter houses from which no returns are received.

Fines and fees realized Rs. 6,619 against Rs. 9,518 in 1879.

24. **Sewage Farms.**—The three chief Sewage Farms are at Kistnampett, Triplicane and D'Mellow's Road, but a considerable area of grass land in the Napier Park is also under sewage irrigation. The receipts and expenditure were as follows:—

	Maintenance and rent.	Receipts.
	Rs.	Rs.
Kistnampett.....	2,607	3,086
Triplicane.....	2,791	1,677
D'Mellow's Road.....	1,716	1,763
	7,114	6,526

The Kistnampett and D'Mellow's Road Farms were self-supporting, but the Triplicane farm shows a loss of Rs. 1,100 which is due to expenditure in amplifying the area brought under irrigation. The D'Mellow's farm suffered loss from insects that destroyed the grass which had eventually to be burned to get rid of the pest.

IV.—PURPOSES OF THE MUNICIPAL ACT.

25. **Education.**—The payments for result grants in poor schools fell from Rs. 6,772 in 1879 to Rs. 6,682 in 1880. The cost of establishment was slightly reduced, as the Director of Public Instruction transferred the charge for the Mahomedan Inspecting Schoolmaster to Provincial Funds. The total charge for education was Rs. 8,258 against Rs. 8,531 in 1879.

43. The number of poor schools under inspection was 195, of which 115 were for boys only, 13 for girls only, and 67 for boys and girls. There were 7,643 children under instruction, and of these 6,461 were boys and 1,182 girls. They were classified as follows:—

	Boys.	Girls.	Total.
Hindus.....	3,481	308	3,789
Mahomedans.....	1,363	25	1,388
Native Christians..	551	450	1,001
Europeans and Eurasians.	318	165	483
Others.....	748	234	982
	6,461	1,182	7,643

Of the total number of pupils 2,164 were sent up for examination, and 1,731 passed.

26. **Hospitals and Dispensaries.**—Rs. 300 were paid as a contribution to the Dispensary established by the Rev. Dr. Strachan at St. Thomé. The contribution to Government was finally fixed at Rs. 20,000 on account of the General Hospital and other Medical Institutions, and the President was made by Government ex-officio visitor of the General Hospital. The Royapettah or Triplicane Hospital with an annual charge of Rs. 11,401, and the Black Town Dispensary with an annual charge of Rs. 6,911, were formally transferred to the Municipality. The total amount payable for 1880 was thus Rs. 38,312, of which Rs. 26,312 were paid. The sum of Rs. 12,000 stood over and has since been indefinitely withdrawn by Government. The arrears due for 1879, amounting to Rs. 41,700-4-0 were paid in the course of the year.

27. **Public Health.—Births.**—The birth-rate per mille was 40·4, as compared with 41·8 in 1879, 37·9 in 1878, 36·2 in 1877, 29·7 in 1876, and 26·2 in 1875. The total number of births was 16,077, being 552 less than in 1879. The percentage of male births to female was as 51·2 to 48·8 which is nearer the true

proportion than in 1879, but it is probable that the registration is capable of further improvement.

28. **Deaths.**—The death-rate rose from 34·7 per mille in 1879 to 37·4 in 1880. Taking the population as ascertained by the recent Census, viz., 406,117 against 397,552, the death-rate falls to 36·7, but even this is an increase over the previous year. The total number of deaths was 14,907 against 13,803 in 1879. The average of the previous ten years was 14,222. The number of deaths among males was 7,532, and among females 7,375. The increased deaths as compared with 1879 are due partly to fevers, but mainly to bowel complaints. There were only two reported cases of death from cholera, and these were more probably cases of diarrhœa brought on by indigestion. Of the total number of deaths 8,081, or more than half, were among children of less than 12 years of age. The cost of the Registration of Births and Deaths was Rs. 4,894 against Rs. 5,513 in 1879. The staff consists of 1 Head Clerk on Rs. 40, 1 Clerk on Rs. 16, 8 Registrars from Rs. 20 to Rs. 30, 8 Conicopillays at Rs. 10, and 2 Peons at Rs. 7.

29. **Vaccination.**—The expenditure was Rs. 4,680 against Rs. 4,658 in 1879. The staff consists of 1 Deputy Inspector on Rs. 70, 16 vaccinators of whom 3 are women, drawing pay from Rs. 10 to Rs. 18, one probationer and a peon. The total number of cases vaccinated was 25,066, showing an increase of 3,760 cases as compared with 1879. The successful cases were 21,590, the unsuccessful 1,775, while 1,701, were unknown. A further improvement appears again in 1880 as in 1879 in the vaccination of infants. The number under one year vaccinated in 1880 was 8,172, in 1879, 5,907, and in 1878 only 2,642. It is right again to draw attention to the fact that but a small proportion of the infants are vaccinated. There were 16,077 births during the year, but only half that number of infants under one year were vaccinated. A considerable improvement however has taken place over 1879.

30. **Conservancy.**—This is the most important of all the Municipal duties. The cost in 1880 was Rs. 2,17,614. A staff of 1,068 coolies and 504 carts was maintained for the daily removal of rubbish and filth, 360,831 cart-loads of which 13,701 were night-soil were removed during the year. 118,424 buckets, and 19,436 cart-loads of night-soil were also removed. Valuable as the work of this department is, it is by no means complete, and a very great deal remains to be done, both in enlarging the staff and improving its efficiency. A matter of importance that must shortly come before the Commissioners for settlement, is the dilapidated condition of the conservancy carts of the Municipality which number 504. These carts were originally Municipal property, but are taken over at a valuation by the Conservancy Contractor who has to maintain them in order during the period of his contract, and is paid for them at the rate of Rs. 2 per month. At the close of the contract they are again taken over by the Municipality or transferred to a new contractor at a new valuation. The carts however are fast wearing out and must soon be replaced by others. The new carts can perhaps be issued to the contractor at their cost price, and the Municipality must eventually take over the old carts at their final valuation, and dispose of them at auction for what they will fetch. It is not unlikely however that no contractor will assent to this heavy outlay. The last valuation of 334 carts in 1879 was Rs. 19,372. The new carts will cost Rs. 150 each, and 350 will be wanted, costing Rs. 52,500.

In connection with this subject may be mentioned the dust-bins which have to be emptied by the carts twice a day. A new pattern of dust-bins, a cylinder of corrugated iron, has been introduced. It is lighter and neater than the masonry receptacles and can be moved from one place to another as may be found convenient. The cost is about the same as that of the masonry bins. To remove its contents it is simply lifted from its base or stand, the rubbish is then put into the cart and the dust-bin is replaced. A very large addition, some thousands in fact, must be made to the dust-bins throughout the town before sufficient provision is made for the deposit of the rubbish that should be daily removed.

31. **Drainage.**—In the course of the year under report the Vice-President, Mr. Jones, successfully completed an experimental section to illustrate the method

he will adopt in carrying out the drainage of Black Town. The drains are all open surface drains at the sides of the streets, egg-shaped, built of brick and mortar and lined with Portland cement. The solid matters are removed by the scavenger by means of a washer of India-rubber exactly fitting the section of the drain. Flushing is needed for the full efficiency of these, as of all other drains, and the means for this is gradually being introduced with the extension of the water supply. The section of drainage thus completed was examined by His Grace the Duke of Buckingham, and by His Excellency the late Mr. Adam, and the approval expressed by the Governors personally has been recorded by Government. The scheme for the drainage of the whole of Black Town at a cost of 8 lacs of Rupees has been prepared, and it may be noted that at the date of writing this report, application has been made to the Government for a loan of one lac to commence the work. The powerful double engines belonging to the Harbour Works, together with the buildings in which they stand, have been transferred to the Municipality at a cost of Rs. 30,000, and will be utilized *in situ* for pumping sewage.

32. **Main Drains**.—The nuisance to the public, and especially to the residents in the Fort, from the necessity of daily opening the gates of the South Main Drain to allow the sewage to flow into the sea, has been greatly mitigated though not removed by the completion of a connecting drain from the South Main Drain to an outlet north of the north Harbour arm. The sewage that formerly accumulated in the South Main Drain and had to be discharged into the sea through the opened gates, liberating the most noxious gases, is now pumped by an engine into the connecting drain and is discharged into the sea north of the Harbour. It is however necessary to open the main drain gates on a fall of rain, and at such times the offensive odours are renewed. It will be necessary to extend the South Main over the wide accumulation of sand in front of it, and to build new gates or doors, as the existing ones are rotten.

33. **River Cooum and Canal Drains**.—The river Cooum and the Buckingham canal are still polluted by the contents of sewers discharging into them. Some of the worst of these lie between the Hospital bridge and the Basin bridge. The nuisance caused by a large sewer at the Salt Cotaurs was complained of by the Salt Commissioner, and has since been entirely removed by utilizing the sewage for the irrigation of a piece of land placed by the Salt Commissioner at the disposal of the Municipality for that purpose. This useful improvement was inspected with approval by H. E. the late Governor. With a view to the sanitary improvement of the Buckingham canal from the Salt Cotaurs to the Central Railway Station, the Agent of the Railway was addressed with the view of obtaining from the Railway Company for irrigation a considerable area of land that lies between the line of railway and Wall Tax Road. After due enquiry and an inspection of the sewage works and farms of the Municipality in other parts of the town, the Agent, Mr. Saunders, with obliging courtesy has placed the land in question at the disposal of the Commissioners to be turned into a grass farm irrigated by the sewage that now carries pollution into the adjoining canal. No rights of ownership in the land have been transferred by the Company, and the Agent may reoccupy the land on giving six months' notice, but it is hoped that the land may be devoted to this useful object until the completion of the drainage of Black Town renders it unnecessary. Arrangements have been made and allotments have been provided in the Budget of 1881 for the diversion of several other large drains that now fall into the Cooum. There is indeed no reason why in the course of a few years every important sewer that now falls into the river and the canal should not be entirely diverted and utilized for irrigation. The river Cooum has been considerably improved of late years, but as for the greater part of the year it is closed by a sand bar, its waters must necessarily become defiled so long as it continues a receptacle for sewage. When however the improvements now in progress and the others that will still remain, have been carried out, the river Cooum will entirely lose the insanitary character for which it has so long been notorious.

34. **Water Supply**.—The extension of the water pipes to those parts of the town not yet supplied with them, has frequently occupied the attention of the Commissioners. The proposed extensions will cost rather more than 3 lacs of

rupees, and provision has been made in the Budget for 1881 for carrying out a portion of the work by means of a loan. The Municipal Amendment Act which has been already referred to (para. 25) is intended to allow the Commissioners time up to the 1st January 1884 to carry out the extension of the Water Supply, and to enable to levy the Water Tax on all premises meanwhile.

The supply from the Red Hills Lake was maintained throughout the year.

The water was at its lowest on the 31st August when there were still 4 feet and 2 inches of water above the level of the lowest pipe. Three new fountains, one of them in the Municipal Office, were erected during the year, and 241 private house services were introduced at the expense of the persons concerned.

The quantity of water drawn off from the Red Hills was 6,064,593 cubic yards or 70,000 cubic yards in excess of 1879. There appears however to be some uncertainty as to the accuracy of the measurements as taken at the Government gauging weir, and the subject is engaging the attention of the Vice-President. The water taken off at the Red Hills represents a consumption of 14·2 gallons per head of a population of 200,000 estimated to consume it.

35. **Roads.**—The expenditure on the roads during the year was Rs. 73,421, and a further sum of Rs. 16,295 remained to be paid on account of repairs and reforms unfinished at the close of the year. The budget allotment for the repair of roads was cut down from Rs. 1,00,000 to Rs. 90,000 by desire of Government. Expressing in untechnical terms the work done, it may be said that 26½ miles of road, 20 feet broad, were reformed with material 3 to 4 inches thick at a cost of Rs. 50,130. These roads will be maintained by the contractors free of charge for an average period of two years. Rs. 15,859 were spent in the repair and upkeep of roads for which the contractors' period of liability had expired. A new method has been introduced by the Vice-President, Mr. Jones, to check the amount of materials used by the Overseers in these repairs. Depôts of material have been made, and the amounts there received and issued are carefully measured and checked with the indents for material sent in by the Overseers.

36. **Public Parks.**—The care of the Napier Park was added to the duties of the Superintendent of the People's Park in the course of the year.

The Annual Fair was successfully held in December in the People's Park under the management of a committee with Mr. Saunders as chairman. The only charge incurred by the Municipality was Rs. 62-8-0, for clearing the race course in the Park. Although the Fair funds are entirely independent of the Municipality, it may be of interest to note that the receipts amounted to Rs. 6,118-9-3, of which Rs. 5,353-4-2 were expended. A lion and a tiger cub were born in the menagerie of the Park during the year; neither lioness nor tigress could suckle its young for more than a few days, and the cubs had to be artificially fed with goat's milk. The tiger cub died when a few weeks old, but the lion cub is healthy and grows fast.

37. **Avenues.**—The Avenue Superintendent was dispensed with and employed in another capacity, owing to the pressure for reductions, and the avenues are now looked after by the Overseers. This arrangement, however, does not give entire satisfaction, and a modification will be considered. The cost under this head was Rs. 3,223. 470 young trees have been planted, and the number watered is 3,630.

38. **Census.**—In the Appendix will be found a detailed account of the preliminary Census which took place in November 1880, and of the final Census which took place on the 18th February 1881. It seemed better to publish the account in the present report than to postpone it for a year when much of the public interest in the matter will have passed. The detailed steps of the work have been recorded for the assistance of those who will have to conduct the next Census in 1892. The population of Madras as roughly totalled up in the Office before the Schedules were despatched to the Deputy Superintendent of the Census, was 406,112, being an increase of 8,560 on the population as censused in 1871.

MUNICIPAL OFFICE,
Madras, 13*th June*, 1881.

A. T. ARUNDEL,
Acting President.

APPENDIX I.

Statement I.—Revenues and Receipts of the Municipal Fund of the City of Madras, for the Calendar year 1880.

	1880. Regular Estimate. Detail of Minor Heads.			1880. Regular Estimate. Total of Major Heads.			Receipts from January to December 1880. Arrear.			Receipts from January to December 1880. Current.			Total Receipts under Major Heads.		
	Rs.	A.	P.	Rs.	A.	P.							Rs.	A.	P.
I.—Taxation.															
1. Tax on Arts, &c., (Section 103.)..	51,522	0	0				10,670	13	4	42,766	0	0			
Deduct refund...							248	0	0	134	8	0			
							10,422	13	4	42,631	8	0	53,054	5	4
2. Tax on Houses, Buildings and Lands, (Section 119), at 10 per cent.	3,52,836	0	0				22,404	15	9	3,35,624	6	4			
Deduct refund..							2,724	11	8	1,973	4	11			
							19,680	4	6	3,33,651	1	5	3,53,331	5	11
3. Water Tax on Houses, Buildings and Lands, (Section 139), at 4 per cent.	90,148	0	0				7,992	4	7	95,039	1	4			
Deduct refund...							993	7	3	421	8	3			
							6,998	13	4	94,617	9	1	1,01,616	6	5
4. Lighting Tax on Houses, Buildings and Lands, (Section 151), at 1¼ per cent.	41,500	0	0				2,332	14	9	40,681	7	3			
Deduct refund...							308	0	10	243	10	1			
							2,024	13	11	40,437	13	2	42,462	11	1
5. Tax on Vehicles on Springs and Animals, (Section 155.)	45,788	0	0				572	12	0	45,642	0	0			
Deduct refund...							...	...	...	75	8	0			
							572	12	0	45,566	8	0	46,139	4	0
6. Tax on Carts and other Vehicles without Springs, (Section 168)...	13,668	0	0				0	15	2	14,121	2	4	14,122	1	6
7. Tolls on Vehicles and Animals entering Municipal limits, (Section 174.)	38,700	0	0				...	...	...	38,700	0	0	38,700	0	0
8. Tax upon places used for the sale of Spirituous and Intoxicating Liquors, (Section 183)	13,335	0	0				241	7	5	13,380	0	0	13,621	7	5
9. Fees for Licenses for Dangerous and Offensive Trades, Markets, &c., (Sections 311, 322, 325, 328, 333, 347, 349, 350, 356, 360) ...	8,650	0	0				...	...	...	8,940	11	5	8,940	11	5
Total Income from Taxation...	...	...	...	6,56,147	0	0	...	...	...	...	...	...	6,71,988	5	1
II.—Rents.															
1. Payment for occupation of Municipal Lands, (Section 137) ..	9,020	0	0				...	...	...	9,738	14	3			
2. Esplanade Grazing Rents ...	1,600	0	0				...	...	...	2,068	5	0			
3. Rent of Lands and Buildings not falling under Section 137 ..	3,600	0	0				...	...	...	4,007	12	9			
4. Rent of Cart-stands	1,500	0	0				...	...	...	1,591	10	0			
5. Contract for sale of Firewood, &c., at Burning Grounds ...	107	0	0				...	..	...	477	0	0			
6. Contract for collecting fees at Slaughter Houses.	7,300	0	0				...	...	...	7,736	4	6			
7. Rent of Market Stalls	6,800	0	0				...	...	...	7,246	15	11			
				29,927	0	0							32,866	14	5
III.—Fines and Fees.															
1. Demand and Warrant Fees ...	3,499	0	0				...	...	...	3,631	3	4			
2. Fines, Magisterial...	393	0	0				...	...	...	461	1	3			
3. Do. Departmental on Contractors	2,700	0	0				...	...	...	2,518	15	5			
4. Do. do. on Subordinates	...	...	...	6,592	0	0	...	...	...	8	4	0	6,619	8	0
Carried over...				6,92,666	0	0							7,11,474	11	6

Statement I.—Revenues and Receipts of the Municipal Fund of the City of Madras, for the Calendar year 1880.

	1880. Regular Estimate. Detail of Minor Heads.			1880. Regular Estimate. Total of Major Heads.			Receipts from January to December 1880. Arrear.			Receipts from January to December 1880. Current.			Total Receipts under Major Heads.		
	Rs.	A.	P.	Rs.	A.	P.							Rs.	A.	P.
Brought over...	...	..	...	6,92,666	0	0	...	...	...	...	...	...	7,11,474	11	6
IV.—Contributions from Provincial Funds.															
1. Roads	15,058	0	0	15,058	0	0	...	...	...	15,058	0	0	15,058	0	0
V.—Payments for Services to Individuals.															
1. Laying on Water pipes to Premises and Sundry Services ...	8,000	0	0	8,000	0	0	...	...	...	1,270	3	3	1,270	3	3
VI.—Miscellaneous.															
1. Proceeds of Sale of Rubbish ...	4,300	0	0				...	..	...	4,570	11	0			
2. Do. Blood at Slaughter Houses							...	...	...	...	...	...			
3. Sewage Farms (Sale of Hay and Grass)	8,000	0	0				...	...	...	7,855	0	1			
4. People's Park	4,230	0	0				...	...	..	5,036	7	4			
5. Napier Park	2,500	0	0				...	...	...	1,568	3	4			
6. Sale Proceeds of Lands ...	2,500	0	0				...	...	...	2,842	4	1			
7. Sale Proceeds of old Stores ...	500	0	0				...	...	...	567	0	2			
8. Payments for Water supplied for purposes other than domestic...	1,200	0	0				...	...	...	1,005	2	6			
9. Sundry Receipts Water Works ...	120	0	0				...	...	...	167	12	0			
10. Do. Lighting	...	...	...				...	...	...	...	...	...			
11. Other Items	4,400	0	0	27,750	0	0	...	...	...	5,385	2	5	28,997	10	11
Total...				7,43,474	0	0							7,56,800	9	8
VII.—Opening Balance.															
(i.) General Fund...	...	...	...	68,538	0	0	...	...	...	47,992	15	5			
(ii.) Water Works Fund	..	...	...				...	...	...	18,363	13	3			
(iii.) Lighting Fund	...	...	...				...	...	...	2,181	12	4	68,538	9	0
Total...				8,12,012	0	0							8,25,339	2	8
Imperial License Tax										40,605	2	9			
Do. Opening Balance										51,068	11	2			
													91,673	13	11
Suspense.															
Strand Rents										582	0	10			
Composition for Tolls										127	8	0			
Stores										54,275	4	1			
Workshops										68,409	15	1			
Sinking Fund Debenture Loan... ...										357	0	0	1,23,751	12	0
Grand Total...				8,12,012	0	0							10,40,764	12	4

Statement II.—Expenditure from Municipal Fund of the City of Madras, for the Calendar year 1880.

	1880. Estimate.									Expenditure from Jan. to Dec. 1880.			Total Expenditure under Major Heads.		
	Details of Minor Heads.			Totals of Minor Heads.			Totals of Major Heads.								
	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.
Grant I.—(*Public Works.*)															
1. New Works.															
(*a*) Buildings	2,755	0	0							2,262	7	5			
(*b*) Drainage	17,355	0	0							17,159	0	2			
(*c*) Water-supply	6,303	0	0							3,477	14	1			
(*d*) Miscellaneous	3,000	0	0							2,458	14	3			
				29,413	0	0				25,358	3	11			
2. Maintenance.															
(*a*) Roads...	90,000	0	0							73,421	2	10			
(*b*) Buildings	5,318	0	0							5,348	7	2			
(*c*) Drainage	3,026	0	0							2,781	11	11			
(*d*) Water-supply	10,424	0	0							10,342	4	2			
(*e*) Miscellaneous	1,461	0	0							2,794	10	10			
				1,10,229	0	0				94,688	4	11			
3. Establishment	16,590	0	0							16,626	6	9			
Allowances	420	0	0							420	0	0			
				17,010	0	0									
4. Tools and Plant.				13,541	0	0				11,513	4	2			
Total Grant I...							1,70,193	0	0				1,48,606	3	9
Grant II.—(*Education.*)															
1. Establishment	1,132	0	0							1,135	14	9			
Allowances	319	0	0							319	11	0			
				1,451	0	0									
2. Results Grants. ...				5,000	0	0				6,632	9	0			
3. Contingent, Stationery and Printing				140	0	0				119	14	3			
Total Grant II...							6,591	0	0				8,258	1	0
Grant III.—(*Sanitation and Medical Services.*)															
1. Hospitals and Dispensaries.															
(*a*) Contribution to Provincial Funds for Triplicane Dispensary, Native Infirmary and Black Town Dispensary, and Hospital for Women and Children ...	41,774	0	0							26,555	0	0			
(*b*) Do. to do. for Medical College...	3,921	0	0							3,717	0	0			
(*c*) Do. to St. Thomé Dispensary...	300	0	0							300	0	0			
				45,995	0	0				30,572	0	0			
2. Vaccination.															
(*a*) Establishment	3,245	0	0							3,228	4	3			
(*b*) Contingencies	1,500	0	0							1,451	14	10			
				4,745	0	0				4,680	3	1			
3. Registration of Births & Deaths.															
(*a*) Establishment	4,361	0	0							4,359	2	1			
(*b*) Contingencies	1,000	0	0							535	9	8			
				5,361	0	0				4,894	11	9			
4. Conservancy.															
(*a*) Establishment	22,339	0	0							22,153	13	8			
(*b*) Hire of Scavengers & Bullocks	1,57,788	0	0							1,53,094	3	1			
(*c*) Hire of Carts	7,300	0	0							7,238	10	0			
(*d*) Night-soil Depots—Estabt...	582	0	0							564	15	0			
Labour	2,891	0	0							3,100	14	9			
(*e*) Covering Rubbish-Labour...	4,044	0	0							4,585	6	7			
Carried over...	1,94,944	0	0	56,101	0	0	1,76,784	0	0	1,90,737	15	1	1,56,864	4	9

Statement II.—Expenditure from Municipal Fund of the City of Madras, for the Calendar year 1880.

	1880. Estimate. Details of Minor Heads.			Totals of Minor Heads.			Totals of Major Heads.			Expenditure from January to Dec. 1880			Total Expenditure under Major Heads.		
	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.
Brought over...	1,94,944	0	0	56,101	0	0	1,76,784	0	0	1,90,737	15	1	1,56,864	4	9
(*f*) Cleaning Main Drains ..	308	0	0							764	5	7			
(*g*) Sanding Latrines	1,305	0	0							833	6	7			
(*h*) Killing Dogs...	240	0	0							239	11	0			
(*i*) Maintenance of Sewage Farms.															
Establishment	504	0	0							501	0	0			
Labour and Contingencies	6,120	0	0							6,068	15	11			
(*j*) Rent of Sewage Farms ...	658	0	0							518	6	0			
(*k*) Burial & Burning Grounds.															
Labour	1,083	0	0							969	3	8			
(*l*) Rent of Ground for a Parcherry	360	0	0							360	0	0			
(*m*) Slaughter Houses.															
Establishment	894	0	0							893	0	0			
Labour	1,221	0	0							1,136	11	2			
(*n*) Main Drain storm overflow.															
Establishment	180	0	0							172	0	0			
Labour	864	0	0							845	5	2			
(*o*) Pumping Main Drain.															
Establishment	540	0	0							480	0	0			
Labour	1,520	0	0							1,533	1	6			
(*p*) Clothing	61	0	0							61	8	0			
(*q*) Contingent Charges ...	7,328	0	0							8,406	13	8			
Kerosine oil stores	1,964	0	0							1,888	13	4			
Iron Boats	...	...	...							1,203	12	1			
				2,20,099	0	0				2,17,614	0	9			
Total, Grant III...							2,76,200	0	0				2,57,760	15	7
Grant IV.—*Miscellaneous Municipal Purposes.*															
1. Lighting.															
(*a*) Maintenance	27,616	0	0							30,392	11	7			
(*b*) Inspection...	960	0	0							960	0	0			
(*c*) Additional Lamps & Sundries.	8,650	0	0							5,430	6	5			
(*d*) Repairs to Lamps and Posts	200	0	0							196	0	8			
(*e*) Re-numbering Lamps with number plate	1,000	0	0							977	11	10			
(*f*) Electric Light	...	...	...							1,222	15	7			
				38,426	0	0				39,179	14	1			
2. Markets.															
(*a*) General Market.															
Establishment	576	0	0							574	8	0			
Labour	360	0	0							353	10	2			
(*b*) Municipal Market, Vepery.															
Establishment	244	0	0							244	0	0			
Labour	120	0	0							120	8	0			
	364	0	0	1,300	0	0				364	8	0			
3. Public Parks.															
(*a*) People's Park.															
Establishment	2,502	0	0							2,486	12	0			
Labour, &c.	8,457	0	0							8,921	3	7			
	10,959	0	0							11,407	15	7			
(*b*) Napier Park.															
Establishment	264	0	0							262	13	4			
Labour, &c.	1,400	0	0							1,354	11	0			
	1,664	0	0	12,623	0	0				1,617	8	4			
4. Watering Roads	...	...	...	5,990	0	0				5,558	4	0			
5. Avenues.															
Establishment	534	0	0							534	7	8			
Labour	2,648	0	0							2,688	14	11			
				3,182	0	0				3,223	6	7			
Carried over...				61,521	0	0	4,52,984	0	0				4,14,625	4	4

Statement II.—Expenditure from Municipal Fund of the City of Madras, for the Calendar year 1880.

	1880. Estimate. Details of Minor Heads.			Totals of Minor Heads.			Totals of Major Heads.			Expenditure from January to Dec. 1880.			Total Expenditure under Major Heads.		
	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.
Brought over...				6,521	0	0	4,52,984	0	0				4,14,625	4	4
6. Fire Engines.															
Establishment	840	0	0							840	0	0			
Labour, &c.	781	0	0							688	14	4			
				1,621	0	0				1,528	14	4			
7. Census	...	..	..	9,200	0	0				9,144	4	10			
Total, Grant IV...							72,342	0	0				72,952	13	11
Grant V.—(*Supervision and Management.*)															
1. Salaries				40,109	0	0				40,108	13	6			
2. Head Office Establishment ...	10,521	0	0							10,517	14	2			
Allowances	300	0	0							300	0	0			
				10,821	0	0				10,817	14	2			
3. Assessment and Collection.															
(*a*) Establishment	32,106	0	0							32,098	5	11			
Allowances...	455	0	0							455	0	0			
(*b*) Office Furniture	266	0	0							266	4	0			
(*c*) Commissioners' Fees ...	290	0	0							190	0	0			
(*d*) Extra Writers, Coolies and Carts	2,894	0	0							2,484	11	2			
(*f*) Numbering Doors	90	0	0							...	...	...			
(*g*) Repairing and re-painting Street Boards	300	0	0							...	...	...			
				36,401	0	0				35,494	5	1			
4. Contribution to Provincial Fund.				652	0	0				593	0	0			
5. Miscellaneous.															
(*a*) Stationery	5,000	0	0							4,520	5	8			
(*b*) Printing Charges	5,000	0	0							5,768	10	0			
(*c*) Advertising Charges ...	2,600	0	0							2,788	14	9			
(*d*) Law charges & Stamp Duties.	3,500	0	0							5,533	9	0			
(*e*) Insurance on Office Premises.	106	0	0							106	4	0			
(*f*) Office Furniture	229	0	0							189	3	10			
(*g*) Contingent	2,000	0	0							1,578	5	10			
(*h*) Water Works Contingent ...	700	0	0	19,135	0	0	1,07,118	0	0	726	9	2	1,08,225	15	0
Total, Grant V...							6,32,444	0	0	21,211	14	3	5,95,804	1	3
Grant VI.—(*Pensions.*)															
(*a*) Superior Grade	2,850	0	0							2,849	10	9			
(*b*) Inferior do	394	0	0							386	9	2			
				3,244	0	0				3,236	3	11			
Repayment of Debts.															
Sinking Fund W. W. Loan ...	28,600	0	0							28,600	0	0			
Do. Debenture Loan...	357	0	0							357	0	0			
				28,957	0	0				28,957	0	0			
Interest.															
On W. W. Loan	57,200	0	0							57,200	0	0			
On Debenture Loan	1,200	0	0							1,080	0	0			
				58,400	0	0				58,280	0	0			
Payment for Red Hills Water ...	6,000	0	0	...	...	...				6,000	0	0			
Police	59,980	0	0	...	...	...				...	...	...			
Quit-Rent...	631	0	0							631	1	0			
				66,611	0	0	1,57,212	0	0	6,631	1	0	97,104	4	11
Carried over...							7,89,656	0	0				6,92,908	6	2

Statement II.—Expenditure from Municipal Fund of the City of Madras, for the Calendar year 1880.

	1880. Estimate. Detail of Minor Heads.			1880. Estimate. Total of Major Heads.			Receipts from January to December 1880.						Total Receipts under Major Heads.		
	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P	Rs.	A.	P.
Brought over...							7,89,656	0	0				6,92,908	6	2
Arrears.															
Hospital and Dispensaries.															
Contribution for Dispensaries ...	41,700	0	0							41,700	4	0			
Do for Medical College.	4,114	0	0							3,709	0	0			
Do for Lock Hospital...	...	...	...							...	...	...			
				45,814	0	0							45,409	4	0
Repayment of Debts.															
Sinking Fund W. W. Loan ...	14,461	0	0							14,461	0	2			
Interest on W. W. Loan ...	28,922	0	0							28,922	0	2			
Payment for Red-Hills Water ...	...	...	...							...	...	...			
Quit-Rent	3,267	0	0							3,266	9	6			
				46,650	0	0									
							92,464	0	0				46,649	9	10
Total...							8,82,120	0	0				7,84,967	4	0
Closing Balance.															
General Fund										77,137	8	0			
Water Works Fund (debit balance)										47,226	14	4			
Lighting Fund										3,491	10	1			
													33,402	3	9
													8,18,369	7	9
To complete purchase of Choolay Market													1,000	0	0
Imperial License Tax													93,508	2	5
Suspense.															
Stores										49,225	10	4			
Workshop...										78,901	9	3			
Band Fund										44	13	0			
Deposit account										4,391	15	0			
Advances Recoverable										323	2	10	1,27,887	2	5
Grand Total...							8,82,120	0	0				10,40,764	12	7

A. T. ARUNDEL,
Ag. President, Municipal Commission.

D. R. PERRIMAN,
for Manager and Book-keeper.

REPORT ON MUNICIPAL ACCOUNTS FOR THE YEAR ENDING 31ST DECEMBER 1880.

From Major D. H. TRAIL, R. E., and E. J. FIRTH, Esq., Auditors of the Municipal Accounts, Madras, to the President of the Municipal Commission, Madras, dated 31*st March* 1881 [*Current No.* 851].

We have the honor to state, for the information of the Municipal Commissioners, that we have carefully examined the Municipal accounts for the year ended 31st December 1880, and that having compared the expenditure shown in the cash-book with the vouchers filed in support of the charges and traced a percentage of those charges to their appropriate headings in the ledgers, we are in a position to verify the entries in Statements I and II of Receipts and Expenditure regarding which and Statements A, B, and C annexed we have a few remarks to offer.

RECEIPTS.

2. The aggregate receipts of the Municipality during 1880, including the balance at the beginning of the year, are as follow :—

	RS.	A.	P.
Revenue and Receipts	7,56,800	9	8
Suspense Account	1,23,751	12	0
Imperial License Tax	91,673	13	11
	9,72,226	3	7
Opening Balance	68,538	9	0
Total ...	10,40,764	12	7

3. In the first item is included the sum of Rs. 978-2-8, a setoff against Rs. 6,715-5-1 embezzled (*vide* paragraph 22 of the Auditors' Report on the accounts of 1879.)

4. *Imperial Tax.*—The control of the Municipality over this tax ceased during the year under notice. The transactions of the year are shown in Statement C annexed, which shows the net loss to the Municipality to be Rs. 902-5-10.

CHARGES.

5. These comprise—

	RS.	A.	P.
Expenditure budgeted for	7,84,967	4	0
Not budgeted for—			
To complete purchase of Choolay market, Rs. 1,000	94,508	2	5
Imperial* License Tax, Rs. 92,508-2-5			
Suspense	1,27,887	2	5
	10,07,362	8	10
Closing Balance	33,402	3	9
Total ...	10,40,764	12	7

6. A statement (A) is annexed showing the aggregate receipts and expenditure under the separate heads of "General Water Works" and "Lighting." The expenditure on water works is made up of the following items :—

	RS.	A.	P.
1. New Works (*c*)	3,477	14	1
2. Maintenance (*d*)	10,342	4	2
3. Establishment	5,529	3	5
Total...	19,349	5	8

and it will be observed that this account closed with a debit balance of Rs. 47,226-14-4. Rs. 22,000 were transferred to this account from the General Fund in 1879. The following amounts have, however, been paid during the year to Interest and Sinking Fund accounts :—

	RS.	A.	P.
Arrears—Sinking Fund	14,461	0	2
Interest	28,922	0	2
Current—Sinking Fund	28,600	0	0
Interest	57,200	0	0
Total...	1,29,183	0	4

7. In Statement B are shown the assets and liabilities of the Municipal Fund as found in the books, in which it will be observed the amount of the Water Works loan has been entered as promised by the President (paragraph 7 of his remarks* on the Auditors' Report on the accounts of 1879). We concur in that officer's remarks regarding the non-inclusion of the money value of such property of the Municipality as wells, tanks, reservoirs, &c.

* Letter, dated 20th July 1880.

8. The sum of Rs. 18,083-15-2, referred to in the Auditors' Report of 1879, paragraph 15, has been dealt with in Proceedings of Government, No. 1647 F, of the 30th August 1880.

* *Vide* statement C annexed.

9. *Stores.*—The account balances in connection with stock-taking have not yet been struck; we have been, therefore, unable to verify the value of the stores shown in the books.

10. In going into the question raised in paragraph 21 of the Auditors' Report on the accounts of 1879, and the President's remarks on the same, paragraph 11 of his letter, No. G. 442, of the 20th July 1880, we see no objection to the forwarding note taking the place of the triplicate previously recommended.

11. Though perhaps not strictly within the Auditors' province, we would beg leave to make the following general remarks upon the system of account adopted by the Municipality for consideration and such future action as may be considered necessary.

12. *Cash-book.*—As a general rule, by this name is signified a book in which only the actual receipts and payments of cash are entered day by day as the transactions occur. Adjustments which do not involve the actual payment or receipt of cash are recorded elsewhere, generally, through the medium of a journal. The so-called cash-book at the head office combines both functions, and consequently some of the items shown as received and paid are not the sums which have actually been received and paid, but are those sums, as modified by adjustments, which are carried into the ledger. For instance, the value of all works completed in the workshops are on receipt of the report credited to workshops and debited to works in the cash-book though no money at that time passed into or out of the hands of the head office. Again all transactions regarding stores in which money does not pass, but the adjustment is made by a book entry, a debit and credit appears in the cash-book. This mixing up of actual cash transactions with others appears objectionable, in as far as it opens the door for possible irregularities; consequently it is suggested that the cash-book should be strictly what the name implies, and should only record sums actually received and actually paid. Adjustments can easily be carried out by means of a journal which would have the great advantage of showing much more clearly than is now done in the cash-book the actual manipulation to which the accounts have been submitted.

13. A correct system of account should show each step so clearly as not to require the presence of the Accountant who booked the transactions. In the present case, we must acknowledge that, without the valuable assistance of Messrs. Axelby and Perriman, we should not have been able to make out the details of the transactions; they can explain what has been done, but the accounts should do so without their aid when once booked.

2ndly.—The next point we would note is that each entry in the cash-book should be supported by a voucher, that is a document which legally proves the genuineness of the entry; for payments it should be a document containing the particulars of the claim and the legal receipt acknowledging the settlement of the debt. In cases where cash is only advanced to enable others to pay, the entry should show the fact, but should not be made as if the proposed payments had actually been effected. When these advances are accounted for, supported by proper vouchers, credit may be given to the paying officer, and the transactions taken into the head office cash-book in the mode adopted in the Public Works Department for recording imprests and payments therefrom, which would meet this requirement exactly. At present mere requisitions for cash are treated as vouchers, and the payments the requisitioning officer notes as being those he intends to make, are entered in the cash-book as if they had actually been made. This clearly is not correct, but it is only fair to state that when proof of the payments having been made was called for, it was forthcoming from other departments, though it was not recorded in the head office.

3rdly.—Advances for sundry purposes.—There appears to us a want of control over and full information regarding this class of transactions. When made, the amounts are entered in the cash-book and adjustment is afterwards effected when the work is finally settled for, but it requires an unnecessary amount of personal care to prevent their being lost sight of. To remedy this, we would suggest the opening of an

account, say "Miscellaneous Advances," to which all such sums should be debited, and which would receive credit for the adjustments when made. A schedule in support of this account in the form of the Public Works Miscellaneous Advance Schedule (appended and marked) would, we consider, be found convenient, and prevent any of the items being lost sight of, and keep the Commissioners fully informed as to advances made and progress made towards adjustment.

14. *Deposits.*—Again we find entries of cash drawn for interest showing the sums as paid, though in some instances the interest had not actually been made over to the individual to whom due. Such sums are held at call, and paid when the claimant turns up to receive it. This is incorrect and unnecessary, as, in cases where it is necessary to receive the interest for payment in the absence of the claimant, by opening an account "Deposits," to which such sums can be credited, the misleading entry adverted to can be avoided. This account would be found useful for recording advances received from private individuals for services to be rendered to them.

15. *Ledger.*—We would suggest that the main ledger heads should be those employed in the half-yearly account current of receipts and expenditure; these might have subsidiary accounts working up to the totals therein recorded, with a view to showing necessary detail, but it is essential that the totals of the main heads be available for direct transfer to the half-yearly return adverted to. To illustrate what we mean—at the beginning of Statement II, under Grant I, we find "New Works"—"Buildings," but in the ledger this head will be looked for in vain; and to obtain the total entered it will be necessary to add together the expenditure on the three following accounts—"Latrines," "Dust-bins," and "Petty Works." The totals of these sub-heads it is, of course, necessary to record, but so ought that of the *main head* "Buildings," of which these are sub-heads.

16. Again the debtor and creditor entries of the several accounts are shown on separate pages; all the creditor entries come first, then the debtor entries in the order of the budget. This arrangement prevents a general view of each individual account, and, in our opinion, the debtor and creditor entries of one account should not be separated by other intervening accounts, as thereby the balance of the account is not so readily obtained.

17. We also notice deduction entries in some of the ledger accounts. This is unusual, as such corrections should generally be made by writes-back, by which course the deduction is made on the opposite side of the ledger by transfer from the journal where particulars are usually given.

18. *Stores.*—The difficulty adverted to by Mr. Arundel in his letter, G. No. 442, dated the 20th July 1880, to the Chief Secretary to Government, is a real one, and may be overcome, as he indicates, by entry at once into the ledger or by using a modification of the Public Works Department form (No. M. 12, attached) for Storekeeper's book of receipts and issues, in which each article on being entered is carried at once into a column appropriated for the class to which it belongs, and there is no difficulty at any time in arriving at the total receipts or issues of any given items.

19. The monthly abstracts give the receipts and issues of stores, but there appears to be no document which shows the Commissioners the balances remaining. A periodical balance return, therefore, appears necessary to afford the power of check in the head office.

20. *Workshops.*—There is no means in the present system of at once arriving at the knowledge whether the workshops are working at a profit or loss. This object might be attained by having an account, say "Workshops," which would be debited with all cash and stores receipts on account of the workshops, and credited with the value of all outturn or issues from the workshops. The balance would then show how the shops as a whole stand at any particular date.

21. The workshop bills are collected by the Engineering Department and when realized the money is made over to the Collection Department. We would suggest for consideration whether it would not be desirable to hand the bills over to the Collection Department, leaving the realization to it. This suggestion is made as no cash accounts appear to be periodically rendered by the Engineering Department,

and there appears to be a want of control over what should be collected as compared with what has been realized.

22. In conclusion we have much pleasure in acknowledging the valuable assistance we have received from the officers of the Municipality, more especially Messrs. Axelby, the Head Accountant, and Mr. Perriman, his Assistant, whose books and accounts are neatly and accurately kept.

Copy of the above forwarded to the Secretary to Government, Financial Department, in accordance with Clause 97 of the Act.

(Signed) D. H. TRAIL, Major, R.E., } *Auditors.*
(„) E. J. FIRTH, }

ORDER THEREON, 19th April 1881, No. 651.

Communicated to the Accountant-General.

2. The Government await the President's remarks on the report.

(True Extract.)

R. DAVIDSON,
Chief Secretary.

From A. T. ARUNDEL, Esq., Acting President of the Municipal Commission, to the Officiating Chief Secretary to Government, dated Madras, 7th June 1881, *G. No.* 254 [*Current No.* 1360].

With reference to G. O., No. 651, dated 19th April, I have the honor to append the following remarks on the Auditors' report. Several difficulties which occurred to me in the system of accounts kept in the Municipal Office were brought to the notice of the Auditors, who have now suggested the course they recommend for adoption.

2. With respect to paragraph 12 of the Auditors' report, the Cash-book and the Journal will be kept distinct.

3. (*Para.* 13, *2ndly*).—I am reluctant to make an important change in the system of payments without further consideration. In every case in which money is drawn for payment, vouchers are eventually submitted as noted by the Auditors. I am not, however, satisfied with the present system and propose to effect a modification of it in communication with the Auditors.

4. (*Para.* 13, *3rdly*).—An account called "Miscellaneous Advances" will be opened as suggested.

5. (*Para.* 14).—There is already a deposit account in the Ledger, but to show the adjustment of small sums drawn for payment, the Manager will keep a subsidiary deposit account with the necessary particulars.

6. (*Para.* 15, *Ledger*).—The detailed headings in the budget are entered under their respective heads in the Ledger, and are totalled up monthly under the main headings, *e.g.*, New Works, Buildings, for entry in the monthly statement. The information desired by the Auditors will be provided by entering these monthly totals in the Ledger under the proper heads.

7. (*Para.* 16).—The accounts of each separate item cannot always be recorded on consecutive pages of the Ledger without a very needless waste of stationery.

8. (*Para.* 19).—The stock-taking of the stores has been completed, and the balance can now be shown periodically.

9. (*Para.* 20).—An account under the head "Workshops" will be opened to obviate the difficulty experienced in ascertaining the profits of this branch.

10. (*Para.* 21).—The Workshop and other bills collected by the Engineering Department were originally transferred to it from the Revenue Department, because the latter wanted the special knowledge of persons and details and the collections fell into arrears. I do not care to retransfer the collection to the Revenue Department, but will, in consultation with the present Auditors, introduce a suitable check on the Engineering Cash Account.

ORDER THEREON, 21st June 1881, No. 1158.

Recorded.

(True Extract.)

C. G. MASTER,
Offg. Chief Secretary.

A

Abstract Statement of Receipts and Expenditure of the Municipal Fund of the City of Madras for 1880, *under General, Water Works and Lighting Funds.*

Revenues and Receipts.	General Fund.			Water Works Fund.			Lighting Fund.			Total.		
	RS.	A.	P.	RS.	A.	P.	RS.	A.	P.	RS.	A.	P.
1. Taxation ..	5,27,909	3	7	1,01,616	6	5	42,462	11	1	6,71,988	5	1
2. Rents ..	32,866	14	5	...	...	...	...	...	...	32,866	14	5
3. Fines and Fees ..	6,240	0	0	...	...	...	379	8	0	6,619	8	0
4. Contributions ..	15,058	0	0	...	...	...	...	...	...	15,058	0	0
5. Payments for services to individuals ..	1,270	3	3	...	...	...	...	...	...	1,270	3	3
6. Miscellaneous ..	27,824	12	5	1,172	14	6	...	...	...	28,997	10	11
Suspense ...	1,23,751	12	0	..	...	...	...	...	...	1,23,751	12	0
License Tax ...	91,673	13	11	...	...	...	...	...	...	91,673	13	11
Balance ...	47,992	15	5	18,363	13	3	2,181	12	4	68,538	9	0
	8,74,587	11	0	1,21,153	2	2	45,023	15	5	10,40,764	12	7

Expenditure.	General Fund.			Water Works Fund.			Lighting Fund.			Total.		
	RS.	A.	P.	RS.	A.	P.	RS.	A.	P.	RS.	A.	P.
1. Public Works ..	1,29,256	14	1	19,349	5	8	...	...	...	1,48,606	3	9
2. Education ..	8,258	1	0	...	...	...	...	...	..	8,258	1	0
3. Sanitation and Medical Services ..	2,57,760	15	7	...	..	...	...	...	...	2,57,760	15	7
4. Miscellaneous Municipal purposes ..	34,995	15	5	...	...	..	37,956	14	6	72,952	13	11
5. Supervision and Management ...	90,802	13	8	13,847	10	6	3,575	6	10	1,08,225	15	0
6. Pensions ..	3,236	3	11	...	..	...	...	...	..	3,236	3	11
Repayments of Debts...	357	0	0	28,600	0	0	...	...	..	28,957	0	0
Interest ..	1,080	0	0	57,200	0	0	...	...	...	58,280	0	0
Payment for Red Hills Water ...	...	..	..	6,000	0	0	..	..	..	6,000	0	0
Quit Rent ...	631	1	0	...	...	...	..	...	...	631	1	0
Arrears ...	48,675	13	6	43,383	0	4	...	..	..	92,058	13	10
Suspense ...	2,22,395	4	10	...	..	..	...	...	...	2,22,395	4	10
Balance ...	77,137	8	0	47,226	14	4	3,491	10	1	33,402	3	9
	8,74,587	11	0	1,21,153	2	2	45,023	15	5	10,40,764	12	7
Balance brought down. Transferred from Genl. to Water Works Fund	77,137	8	0	47,226	14	4	3,491	10	1	33,402	3	9

B

Statement of Assets and Liabilities of the Madras Municipality for 1880.

Assets.	Amount.			Liabilities.	Amount.		
	RS.	A.	P.		RS.	A.	P.
Municipal Fund	10,03,380	9	4	Water Works Loan	14,30,000	0	0
Bank of Madras	33,402	3	9	Six per cent. Debenture Loan ..	20,000	0	0
Sinking Fund Water Works Loan.	3,13,185	0	9	Strand Rents	1,531	12	9
Do. Debenture Loan ...	357	0	0	Compensation of Tolls	635	8	0
Stores	43,744	8	5	Deposits	462	0	0
Workshop	9,071	3	0	Band Fund	3	8	3
Municipal Market, Vepery ..	18,000	0	0				
Embezzlement	5,737	2	5				
Office Premises	22,697	8	0				
Advances	3,057	9	4				
	14,52,632	13	0		14,52,632	13	0

C

License Tax Account.

Date.	RECEIPTS. Particulars.	Taxes. RS.	A.	P.	Fees. RS.	A.	P.	Total. RS.	A.	P.	Grand Total RS.	A.	P.
	Opening Balance ...										51,068	11	2
January ...	Collection ...	9,454	8	0	220	0	0	9,674	8	0			
February ...	do ...	1,679	0	0	223	0	0	1,902	0	0			
March ...	do ...	372	0	0	58	0	0	430	0	0			
April ...	do ...	110	6	3	7	12	6	118	2	9			
May ...	do ...	707	8	0	...	...	...	707	8	0			
June ...	do ...	2,185	0	0	...	...	...	2,185	0	0			
July ...	do ...	15,120	0	0	88	8	0	15,208	8	0			
August ..	do ...	6,085	0	0	1,176	0	0	7,261	0	0			
September ...	do ...	1,120	0	0	233	0	0	1,353	0	0			
October ...	do ...	1,517	8	0	43	0	0	1,560	8	0			
November ...	do ...	205	0	0	...	...	...	205	0	0			
		38,555	14	3	2,049	4	6				40,605	2	9
											91,673	13	11

Date.	PAYMENTS. Particulars.	Expenditure. RS.	A.	P.	Total. RS.	A.	P.	Grand Total. RS.	A.	P.
January ...	Establishments, &c...	760	7	5						
February ...	do ...	687	13	0						
March ..	do ...	933	8	6						
April ...	do ...	647	10	6						
May ..	do ...	664	1	0						
June ...	do ...	641	4	10						
July ..	do ...	987	13	2						
August ...	do ...	502	4	6						
September ...	do ...	330	10	6						
October ...	do ...	386	11	0						
November ...	do ...	390	3	0	6,982	7	5			
July ...	Payments to the Collector of Madras ...	60,811	9	0						
November ...	do ...	* 25,045	15	10						
December ...	do ...	668	2	2	86,525	11	0			
								93,508	2	5

REMARKS.

	RS.	A.	P.
Total Expenditure ...	93,508	2	5
Do. Receipts ...	91,673	13	11
	1,834	4	6
Loss to Municipality in 1879...	902	5	10
	2,736	10	4

* Amount included in this cheque, vide President's letter No. 657, dated 6th November 1880 to Collector of Madras.

APPENDIX II.

GENERAL DEPARTMENT.

The Commission consisted of:—

OFFICIAL MEMBERS.

A. T. ARUNDEL, Esq., *Acting President*, Assumed Charge of the Office on the 13th March 1880, *vice* L. R. BURROWS, Esq., proceeded to Europe on Medical Certificate.
J. A. JONES, Esq., *Vice-President*, Public Works and Conservancy.
M. R. Ry. P. RAMASAWMY CHETTYAR Avargal, *Vice-President*, Revenue.

NON-OFFICIAL MEMBERS.

1st Division.

THE HONORABLE J. G. COLEMAN.
M. R. Ry. C. V. SUNDARAM SASTRIAR Avargal.
DR. D. R. THOMPSON, C.I.E.
M. R. Ry. C. YETHERAJULU NAYUDU GARU.

2nd Division.

COWASJEE EDULJEE, Esq.
M. R. Ry. V. GANESHA RAO GARU.
" V. KRISTNAMA CHARRIAR Avargal.
" P. S. RAMASAWMY MUDALIYAR Avargal.
" Y. VENKATARAMAYA GARU.

3rd Division.

HAJI MUHUMMED ABDULLA BATCHA SAIB BAHADUR.
A. M. HOOPER, Esq.
THE HONORABLE P. MACFADYEN.
M. R. Ry. P. SOMASUNDARAM CHETTYAR Avargal.
" P. VIJIARUNGA MUDALIYAR Avargal.

4th Division.

DR. W. DHANAKOTI RAJU.
B. LOVERY, Esq.
M. R. Ry. E. TIRUVENGADAM MUDALIYAR Avargal.

5th Division.

ABDUL GHANIKHAN BAHADUR.
LIEUTENANT J. H. TAYLOR, R.N.R.
M. R. Ry. W. S. VENCATARAMANJULU NAYUDU GARU.
THE HONORABLE V. RAMIENGAR, C.S.I.

6th Division.

J. H. SPRING BRANSON, Esq.
A. V. D. BEST, Esq., Resigned 17th March 1880.
H. B. GRIGG, Esq., Nominated 14th May 1880.
J. P. NICHOLAS, Esq.
DR. H. STANBROUGH, Disqualified to be a Commissioner under Section 27 of the Act, 19th July 1880.

7th Division.

DR. MOIDEEN SHARIFF KHAN BAHADOOR.
M. R. Ry. G. RAJAGOPAUL NAYUDU GARU.
F. ROWLANDSON, Esq.
M. R. Ry. P. RUNGIAH NAYUDU GARU.

8th Division.

J. G. FERRAND, Esq.
THE HONORABLE MIR HUMAYUN JAH BAHADUR.
SIR W. W. ARBUTHNOT, *Bart.* Resigned 29th September 1880.
L. STRANGE, Esq., Nominated 22nd December 1880.

APPENDIX II.

GENERAL DEPARTMENT.

During the year 1880 there were—

5 General Meetings.
2 Adjourned General Meetings.
3 Special Meetings.
4 Adjourned Special Meetings.

The Gentlemen who served on the Standing Committee were as follow:—

OFFICIAL MEMBERS.

A. T. ARUNDEL, Esq., *Acting President.*
J. A. JONES, Esq., *Vice-President,* Public Works and Conservancy.
M. R. Ry. P. RAMASAWMY CHETTYAR Avargal, *Vice President,* Revenue.

NON-OFFICIAL MEMBERS.

M. R. Ry. V. KRISTNAMA CHARRIAR Avargal.
" P. VIJIARUNGA MUDALIYAR Avargal.
" Y. VENKATARAMAYA GARU.
J. P. NICHOLAS, Esq.
M. R. Ry. P. RUNGIAH NAYUDU GARU.

The Standing Committee met 23 times during the year 1880.

GENERAL DEPARTMENT.

The following is a concise abstract of the Receipts and Disbursements in the year, prepared in accordance with the form prescribed by the Government of India.

Receipts.	RS.	A.	P.	RS.	A.	P.
Balance	1,19,607	4	2			
Tax on Houses and Lands	3,53,331	5	11			
Water Tax on do.	1,01,616	6	5			
Lighting Tax on do.	42,462	11	1			
Licenses on Trades	75,616	8	2			
Taxes on Spring Carriages and Animals, and on Carts and other Vehicles without Springs	60,261	5	6			
Tolls	38,700	0	0			
Total Income from Taxation... ...	6,71,988	5	1			
Ground and other Rents...	32,866	14	5			
Fines and Fees	6,619	8	0			
Miscellaneous	27,992	8	5			
Payments for Municipal services rendered to Individuals and Government, Water Supply, House Services	2,275	5	9			
Grants-in-Aid from Provincial Funds	15,058	0	0			
Total Income of year excluding Balance...	7,56,800	9	8			
Advances and Suspenses...	1,23,751	12	0			
Imperial License Tax	40,605	2	9			
Total, including Balance				10,40,764	12	7
Disbursements.						
Interest on Debt	87,202	0	2			
Head Office Establishment	86,421	0	9			
Conservancy and Cleaning	2,17,614	0	9			
Registration of Births and Deaths	4,894	11	9			
Lighting	39,179	14	1			
Construction and Maintenance of Roads	73,421	2	10			
Watering Roads	5,558	4	0			
Drainage Works	19,940	12	1			
Water-supply	13,820	2	3			
Other Public Works, including Gardens and Sanitary Improvements ...	48,981	5	5			
Tools and Plant	11,513	4	2			
Sanitary and Charitable Establishments and Vaccination	80,661	7	1			
Education	8,258	1	0			
Miscellaneous	23,938	12	8			
Payment of Debt (Sinking Fund)	43,418	0	2			
Census	9,144	4	10			
Payment for Red Hills Water	6,000	0	0			
Payment on account of purchase of a Market	1,000	0	0			
Advances and Suspenses...	1,27,887	2	5			
Imperial License Tax	93,508	2	5			
				10,07,362	8	10
Balance at close of year... General Fund ... 77,137 8 0						
Balance at close of year... Water Works Fund (debit balance) ... 47,226 14 4						
Balance at close of year... Lighting Fund ... 3,491 10 1				33,402	3	9

In the above statement the opening balance of Rs. 1,19,607-4-2, although the actual cash balance in the Bank, was not the *bonâ fide* balance to the credit of the Municipal Fund, but was made up as follows:—

	RS.	A.	P.
Imperial License Tax collected on behalf of Government.....	51,068	11	2
Municipal Fund	68,538	9	0
Rupees...	1,19,607	4	2

The balance at the close of the year was Rs. 33,402-3-9, the actual cash balance in the Bank and entirely to the credit of the Municipal Fund, as the collection by the Municipality of the Imperial License Tax ceased during the year.

The income under taxation in this year amounts to Rs. 6,71,988-5-1, the incidence of which per head of population as reckoned upon the Census of 1871 is Rs. 1-11-5.

GENERAL DEPARTMENT.

The Assets and Liabilities as shown in the books on 31st December 1880, are as follows :—

List of Assets or Debit Balances.	RS.	A.	P.	RS.	A.	P.
The Municipal Fund	...	...	...	10,03,380	9	4
Bank of Madras	...	...	...	33,402	3	9
Sinking Fund Water Works Loan	...	...	...	3,13,185	0	9
Do. Debenture Loan	...	...	...	357	0	0
Stores	...	...	...	43,744	8	5
Workshop	...	...	...	9,071	3	0
Municipal Market, Vepery	...	...	...	18,000	0	0
Embezzlement	...	...	...	5,737	2	5
Office Premises	...	...	...	22,697	8	0
Standing Advances :—						
Manager, General Department	...	...	...	300	0	0
Superintendent, People's Park	...	...	..	25	0	0
Deputy Inspector Vaccination	...	...	...	200	0	0
Advances Recoverable :—						
Storekeeper	...	...	...	0	1	0
Mr. G. H. Smith	...	...	..	31	14	0
Vice-President, Public Works and Conservancy	..	...	...	538	6	6
Do. Revenue	...	...	..	1,105	4	0
Soobroya Moodelly and Authemoola Moodelly	...	...	...	29	0	10
P. Parthasarthy Naidoo	...	...	...	69	12	0
C. Lingamoorthy Chetty	...	...	...	1	0	0
Central Jail, Vellore	...	...	...	7	3	0
C. Somasoondrum Moodelly	...	...	...	250	0	0
Ragoonatha Moodelly	...	...	...	250	0	0
Streeramaloo Naidoo	...	..	...	250	0	0
List of Liabilities or Credit Balances.						
Water Works Loan	14,30,000	0	0	...	...	...
Six per Cent. Debenture Loan	20,000	0	0	...	...	...
Strand Rents	1,531	12	9	...	...	...
Composition of Tolls	635	8	0	...	...	...
Deposits	462	0	0	...	...	...
Band Fund	3	8	3	...	..	...
	14,52,632	13	0	14,52,632	13	0

Liabilities.—The outstanding dues to Government were materially reduced this year, the liabilities as they stood at the close of 1879 were as follows :—

		RS.	A.	P.	RS.	A.	P.
1.	Contribution for Hospitals and Dispensaries for 1879.....	41,700	4	0			
2.	Do. for Medical College do. ...	4,185	0	0			
3.	Do. for Lock Hospital	8,788	0	0			
					54,673	4	0
4.	Interest on Water Works Loan due 31st December 1879 ...				43,252	9	8
5.	On account of Red Hills Water up to do.				27,277	13	6
6.	Arrears of Quit Rent (claimed)				16,000	0	0
				Rupees...	1,41,203	11	2

The arrears that were wiped off by direct payment were :—

Contribution for Hospitals and Dispensaries.
Do. Medical College.
Interest on Water Works Loan.
Arrears of Quit Rent.

The contribution for Lock Hospital was cancelled by the Government.

	RS.	A.	P.
The only item of arrears of 1879 remaining unpaid is the charge for Red Hills Water	27,277	13	6

The Liabilities due to Government at the close of the year under review are as follows :—

Hospitals and Dispensaries	12,000	0	0
Police	59,980	0	0
Rs...	99,257	13	6

Thus a sum of Rs. 99,257-13-6 remained due at the close of the year, being Rs. 41,945-13-8 less than the previous year. The Government have, however, in consideration of the financial condition of the Municipality waived their claim indefinitely to the contribution towards Hospitals Rs. 12,000 and for Police Rs. 59,980, or in all to a sum amounting to Rs. 71,980.

In addition to the above outstandings a sum of about Rs. 25,000 in round number remains to be paid for unfinished works and unpaid bills of 1880, the closing balance of the year will more than suffice to meet these liabilities.

Water Works Loan.—The following statement shows the progress made towards the Sinking Fund for the liquidation of the loan up to 31st December 1880.

Balance to 31st December 1879.				Receipts during 1880.				Total.				Payments.				Balance.			
In Government Securities.	In Cash.			In Government Securities.	In Cash.			In Government Securities.	In Cash.			In Government Securities.	In Cash.			In Government Securities.	In Cash.		
RS.	RS.	A.	P.	RS.	RS.	A.	P.	RS.	RS.	A.	P.	RS.	RS.	A.	P.	RS.	RS.	A.	P.
2,57,200	122	10	8	41,600	54,444	7	5	2,98,800	54,567	2	1	...	40,182	1	4	2,98,800	14,385	0	9

The original loan raised in 1869-1874, amounted to Rs. 14,30,000, the interest payable thereon is six per cent., four per cent. of which is credited to Government, and two per cent. towards the Sinking Fund for the liquidation of the Loan.

The payments towards this fund during the year are as follows :—

	RS.	A.	P.
From the Municipal Fund	43,061	0	2
Interest realized on investments	11,383	7	3
Rupees...	54,444	7	5

Of this sum Rs. 40,182-1-4 was invested in the purchase of Government Securities to the extent of Rs. 41,600. On the whole Rs. 3,13,185-0-9 have been paid in liquidation of the loan which now stands at Rs. 11,16,815.

Public Parks.—At the People's Park the year opened with the last day of the Fair of 1879 on the evening of which day a grand display of fireworks took place and the year terminated with the beginning of the Fair held last year.

Planting.—During the year under review 52 Banians, 20 Mango trees and 50 Acacias were planted in different parts of the Park and I am glad to say that with a few exceptions they are all doing well and show signs of a vigorous growth.

Grass and Hay.—Of grass 249 tons, 6 cwts., 2 lbs., were cut and sold during the year, of hay 52⅞ tons were cut and 17¾ tons were sold, leaving on hand 35⅛ tons. By the sale of grass a sum of Rs. 2,770-1-8 was realized, by that of hay a sum of Rs. 300-8-0, both aggregating to Rs. 3,070-9-8.

Electric light.—The income Rs. 198-10-0 derived under this head is I regret to say not very satisfactory. This is accounted for by the fact that the inner enclosure of the Band stand has not been frequented by so large a number of visitors as was anticipated.

GENERAL DEPARTMENT.

Zoological.—The following additions were made to the Zoological and other collections during the year.

1 Saras	presented by	Ahmed Moideen Khan Bahudur, 11th January 1880.
1 Cheetah Cub	do.	S. Biligiri Aiyangar, 19th February 1880.
1 Jackal and 8 Foxes	do.	Mr. Ouchterlony, 1st March 1880.
1 Hill Goat	do.	Mr. T. Ottman, 4th March 1880.
2 Young Hill Goats	do.	His Grace the Duke of Buckingham, 5th March 1880.
1 Young Bear	do.	Honorable J. Kernan, 7th May 1880.
1 Badger	do.	Mr. F. Dique, 16th June 1880.
1 Indian Stork	do.	Mr. Elliot, 17th November 1880.

1 Lion Cub	born	5th July 1880.
2 Tiger Cubs	do.	21st August 1880.
1 Young Sambur	do.	6th October 1880.

Casualties during the year.

1 Pelican	died	16th March.
1 Wild Boar	do.	3rd April 1880.
1 Ostrich	do.	27th do.
1 Malay Bear	do.	10th July 1880.
1 Hyæna Cub	do.	7th August 1880.
2 Tiger Cubs	do.	27th August and 23rd October 1880.
1 Bear Juggler	do.	17th September 1880.
1 Emu	do.	11th October 1880.

2 Hyæna Cubs purchased from Mr. Benson on the 16th March 1880.

The income under this head during the year 1880 is Rs. 1,692-0-0 being Rs. 180 more than that obtained in the year 1879, the fees for admission into the enclosure being let out on contract as in the previous years. From the use of the Elephant a very small sum, viz. Rs. 43-1-0 only has been derived. The novelty of this amusement appears to have worn away as very few of the visitors to the Park make use of the Elephant. The fees collected for the use of the Swimming bath during the year amounted to Rs. 175-4-0.

Reduction of Establishment.—A reduction in the establishment of the Park took place in the month of June 1880 when the services of 3 Peons and 6 Gardeners were dispensed with.

The Band Stand.—A band played at the Park twice a week throughout the year, the attendance being particularly good on Saturdays. A few numbers of the local police assisted by a couple of Municipal Office peons were always present at the Park on band days with a view to preserve order.

GENERAL DEPARTMENT.

The list of the animals forming the Zoological collections in the Park on the 1st January 1881 and statement of receipts and disbursements for the year 1880 are hereto annexed.

ZOOLOGICAL COLLECTIONS.

No.	English Names.	Scientific Names.
1	Lion	*Felis Leo.*
1	Lioness	
1	Lion Cub	
2	Tigers	*Felis Tegris.*
2	Tigresses	
1	Leopard or Cheetah, male	*Felis pardus.*
1	Do. do. female	
1	Black Panther	*Felis pardus (Niger).*
1	Spotted do	*Felis pardus.*
3	Striped Hyænas	*Hyæna striata.*
2	Common Porcupines	*Hystrix leucura.*
1	Bear (Juggler)	*Ursus labiatus.*
1	Rhinoceros	*Rhinoceros indicus.*
1	Elephant (Asiatic)	*Elephant indicus.*
42	Rabbits	*Lepus cuniculus.*
24	Common Cavy or Guinea Pigs	*Cavia Cobaya.*
1	Jungle Cat	*Felis chaus.*
3	Common tree Cats	*Paradoxurus musanga.*
2	Civet Cats	*Viverra Malaccensis.*
1	Opossum	*Didelphis. Sp?*
20	White Rats	*Musdecumanus (Varalbus).*
24	Axis or Spotted Deers	*Axis macalatus.*
1	Rangoon Deer	*Rucervus Duvancelli.*
5	Samburs	*Rusa Aristotelis.*
4	Jackals	*Canis aureus.*
3	Ratel	*Mellivora Indica.*
1	Wild Boar	*Sus Indicus.*
1	Sacred Abyssinian Baboon	*Cynocephalus Hamadryas.*
1	Lion-like Monkey or Wanderoo	*Inuus silenus.*
1	Indian Antelope	*Antelope bezoartica.*
1	Pig-tailed Monkey	*Macacus nemustrinus.*
7	Common Monkeys	*Macacus radiatus.*
1	Antelope	*Antilope. Sp?*
1	Starred Tortoise	*Testudo elegans.*
1	Fox	*Vulpes Bengalensis.*
1	Wolf	*Canis lupus.*
4	Crocodiles	*Crocodilus palustris.*
1	Entellus or Madras Langur	*Presbytis priamus.*
1	Lemur	*Loris gracilis.*
1	Kangaroos	*Macropus. Sp?*
1	Wild Dog	*Canis dingo.*
2	Hill Goats	*Capra hircas.*
3	Python	*Python.*
2	Storks	*Mycteria Australis.*
4	Pea-Cocks	*Pavo cristatus.*
5	Do Hens	
3	Jungle Fowls	*Gallas Sonneratii.*
2	Black Swans	*Cygnus atratus.*
3	Guinea Fowls	*Numiaa. neleagris.*
22	Malta Pigeons	*Columba. Sp?*
50	Common Pigeons...	*Columba intermedia.*
4	White-headed Pigeons	*Columba. Sp?*
1	Concal	*Centropus rufipennis.*
1	Emu	*Dromanis Novæ Hollandæ.*
1	Greater Sulphur-crested Cockatoo ...	*Cacatua Galerita.*
1	Pacific Gull	*Larus. Sp?*
2	Brown-headed Gulls	*Xema brunnicephala.*
1	Heron, Common	*Ardea cinerea.*
3	Koels	*Eudynamys orientalis.*
1	Partridge	*Ortygornis Ponticerianus.*
4	Doves	*Turtor. Sp?*
1	Sarus	*Grusantigone.*
1	Bald-headed Vulture	*Otogyps calvus.*
8	Vackas or Night-herons	*Nycticorax griseus.*
1	Black Parrot	*Psittacius. Sp?*

GENERAL DEPARTMENT.

Statement of Receipts and Disbursements on account of the People's Park, from 1st January to 31st December 1880.

Receipts.	Amount.			Disbursements.	Amount.		
	RS.	A.	P.		RS.	A.	P.
Proceeds of sale of hay and grass.	3,070	9	8	Establishment	2,486	12	0
Tiger collections ... Rs. 2,004				Labor	1,276	5	11
Deduct amount paid in advance in December 1880 ... ... „ 312				Feeding bullocks of the Park	32	2	8
				Hire of bullocks to the Park	129	11	0
				Carts and candles, &c., for the Band on Band days	67	8	0
	1,692	0	0	Cutting and weeding	604	7	5
Swimming bath Collection ...	175	4	0	Maintenance of Zoological collection and Establishment	5,350	0	10
Elephant collection	43	1	0	Swimming bath Establishment	24	0	0
Miscellaneous	179	10	8				
	5,160	9	4	IMPROVEMENTS.			
Met from the Municipal Fund ...	6,066	2	3	Planking and Repairing the Rhinoceros' enclosure	138	5	3
				Repairing the Swimming bath cistern	125	10	7
				Do. railings and gates round the Park ...	124	9	6
				*Do. wild animals' cages and buildings, &c.	290	7	11
				Do. Park carts	61	4	10
				Putting fence round the Electric light engine shed	93	1	6
				Kerosine oil, &c., for lights	128	3	0
				Clothes to Sergeants and Peons	63	12	0
				Reward to villagers for catching a Crocodile ...	7	0	0
				Hire of totees for Madras fair	3	5	0
				Coolies employed for bringing red mud from different places for covering goats' dung ...	51	9	3
				Value of 2 Hyæna cubs	30	12	0
				Sundries	127	10	11
Total Rupees...	11,226	11	7	Total Rupees....	11,226	11	7

* A new cage for tigers was erected during the year but not paid for, at a cost of Rs. 526-4-6.

Napier Park.—During the year under review 132 tons, 5 cwts. and 3 lbs. of grass were cut and sold for Rs. 1,331-10-10 and 19 tons, 10 cwts., 1 lb. of hay were cut and sold for Rs. 682-14-6, both aggregating Rs. 2,014-9-4.

Planting :—35 Banian trees, 10 Mango trees, 22 Asoga, 16 Tamarind, 12 Portia and 4 Sumach trees were planted in different parts of the Park; on the 1st June last the number of picottah men and gardeners was reduced from 15 to 9 and after the reduction, only 1,050 squares of land were irrigated by sewage.

320 Banian trees, 60 Neem, 40 Portia and 30 Peepul trees were removed from the nursery and planted on the roads for Avenues during the year.

The following is a list of animals impounded :—

Description of Animals.	No.	Reward.		
		RS.	A.	P.
Horses ...	13	3	4	0
Cows and Bullocks ...	45	11	4	0
Buffaloes ...	37	9	4	0
Asses ...	2	0	8	0
Goats ...	22	2	12	0
Calf ...	1	0	2	0
Total...	...	27	2	0

Receipts.

Proceeds of sale of hay and grass	Rs.	1,568	3	4
Met from the Municipal Fund	„	49	5	0
Total Rupees...		1,617	8	4

GENERAL DEPARTMENT.

Charges.

Establishment	Rs.	480	9	9
Working Picottah and weeding	,,	592	15	2
Reward for pounding cattle	,,	27	2	0
Quit Rent	,,	200	0	0
Rebuilding compound wall...	,,	71	2	9
Plastering along Messrs. Simpson and Co.'s wall..	,,	47	8	0
Repairing box carts...	,,	15	1	8
Do. rails at the gates	,,	2	1	5
Do. picottah, &c.	,,	64	3	7
Fixing a stop cork and a cover	,,	29	1	3
Sundries	,,	87	10	9
Total Rupees...		1,617	8	4

Education.—The Deputy Inspector of Schools reports as follows upon the elementary instruction maintained by the Municipality during the year :—

Inspecting Schoolmasters.

The number of Inspecting Schoolmasters in the Town of Madras, viz., three, remained the same at the end of the year as at the beginning. Up to August last, all the three were paid from the Municipal Funds. In that month the Municipality proposed to reduce the number to two, by dispensing with the services of one of them on the ground that the state of elementary education in the Town did not require the services of more than one Inspecting Schoolmaster. Government, however, at the recommendation of the Director of Public Instruction, ordered the Mahomedan Inspecting Schoolmaster to be paid from Provincial Funds and thus reduced the expenditure from Municipal Funds from Rupees 141 to Rupees 94 per mensem. The amount thus transferred as a charge upon Provincial Funds was Rupees 47. The following table shows the names, salaries, &c., of these officers as they stood on the 31st December 1880.

Name.	Examination passed.	Salary including batta of Rs. 10.			Range.
		RS.	A.	P.	
M. Jaffer Hussain Sahib ...	Matriculation...	45	0	0	The whole of the Municipality.
A. V. Parasurama Aiyar ...	Do. ...	45	0	0	Black Town (1st to 4th Municipal Divisions.)
M. A. Janakirama Aiyar ...	Do. ...	45	0	0	Triplicane (5th to 8th Municipal Divisions.)

3. The number of Elementary Poor Schools in the Town on the 1st January 1880 was 200, and that on the 31st December, 195, showing a decrease of 5 schools. The number of poor children receiving instruction was 7,643 on the last day of the year against 7,314 in the beginning of the year, showing an increase of 329 pupils; so that, while the number of schools decreased, the number of pupils receiving instruction in them increased.

GENERAL DEPARTMENT.

4. The following table shows the distribution of these schools among the different agencies at work :—

Agency.	Number on the 1st January 1880.		Number on the 31st December 1880.	
	Schools.	Pupils.	Schools.	Pupils.
Mission Agencies ...	50	2,807	42	2,694
M. Jaffer Hussain Sahib ...	48	1,163	42	1,319
A. V. Parasurama Aiyar ...	56	1,748	57	1,912
M. A. Janakirama Aiyar ...	51	1,596	54	1,718
Total....	200	7,314	195	7,643

5. The subjoined table shows the distribution of the schools and pupils among the different Municipal Divisions :—

Municipal Division.	Number of	
	Schools.	Pupils.
I	18	687
II	37	1,290
III	27	1,230
IV	3	154
V	42	1,697
VI	4	265
VII	40	1,450
VIII	24	870
Total...	195	7,643

6. Of the 195 schools on the last day of the year, 5 were English, that is, intended specially for the children of European and Eurasian parents; of the remaining 190, 89 were Anglo-Vernacular and 101 purely Vernacular.

7. The following shows the classification of the 195 schools under inspection, according to the languages taught :—

30 Tamil.
22 Telugu.
18 Hindustani.
5 English.
10 Tamil and Telugu.
14 Hindustani and Persian.
41 Tamil and English.
14 Telugu and English.
1 Hindustani and English.
31 Tamil, Telugu and English.
5 Hindustani, Persian and Arabic.
3 Hindustani, Persian and English.
1 Hindustani, Persian, Arabic, and English.

8. Of these schools, 115 were for boys only, 13 for girls, and 67 for boys and girls. But according to the rules in force in the Educational Department, the schools were classified in the Returns as Boys' or Girls' only as the number of boys or girls in a school predominated. According to this classification, there were on the 31st December last 179 Boys' schools and 16 Girls' schools.

9. Of the 7,643 pupils under instruction there were 6,461 boys and 1,182 girls. Of these, 61 boys were in what are classified as Girls' schools and 447 girls in what are called Boys' schools.

10. Classifying the boys according to race or creed, there were :—

3,481 Hindus,	318 Europeans and Eurasians,
1,363 Mahomedans,	748 Others.
551 Native Christians,	

11. Classifying the girls similarly, there were :—

308 Hindus,	165 Europeans and Eurasians,
25 Mahomedans,	234 Others.
450 Native Christians,	

12. Of the 195 schools under inspection, 109 were aided and 86 remained unaided during the year. Of the schools aided, 96 were Boys' and 13 Girls'; nine more schools were closed during the year after grants were paid.

13. The following table shows the number of pupils presented for examination and passed under the different standards of the Results Grant Rules :—

III.		II.		I.		Total.	
Presented.	Passed.	Presented.	Passed.	Presented.	Passed.	Presented.	Passed.
507	400	736	568	921	763	2,164	1,731

14. The amount of grant passed by the President during the year was Rs. 6,855-10-0; of which Rs. 6,572-6-0 was paid and Rs. 283-4-0 remained undrawn during the year. A sum of Rs. 110-3-0 was paid during the year as grants earned by some schools during the year before. The total sum expended by the Municipality on elementary education of the poor during the year amounted to Rs 8,258-1-0, which was made up of the following items :—

1. Inspecting Agency	Rs.	1,455	9	9
2. Results Grants	„	6,682	9	0
3. Contingencies, &c.	„	119	14	3
Total	Rs.	8,258	1	0

STATEMENT OF RESULTS GRANTS PAID BY THE MADRAS MUNICIPALITY DURING THE YEAR 1880.

No.	Names of Schools.	Division.	Locality.	No. of Pupils Examined.	Amount of Grant.		
					RS.	A.	P.
1	Abdool Guffur's Vernacular ...	2	Black Town ...	10	1	8	0
2	Abdul Kader's Vernacular ...	7	Triplicane ...	19	45	8	0
3	Adinarayaniah's Mixed ...	3	Linghi Chetty Street ...	46	84	0	0
4	Adiseshiah's, M. Mixed ...	2	Mungamma Lane ...	14	51	0	0
5	Annamalai Mudali's, M. ...	8	Mylapore ...	20	38	0	0
6	Arimuthoo Naicker's, S. ...	7	Chintadrepett ..	12	29	0	0
7	Arumooga Mudali's, V. ...	2	Iya Moodelly Street ...	20	82	8	0
8	Arunachella Mudali's, T. ...	8	Tenampett ...	19	35	3	0
9	Balakistnasawmy Chetty's, B.A.	5	Choolay ...	15	26	0	0
10	Bashiakarliah's, C. Mixed ...	2	Veerappen Street ...	40	164	4	0
11	Catholic Mixed ...	5	New Town ...	11	38	14	0
12	„ Boys' ...	5	Do. ...	4	15	8	0
13	Chengalroya Mudali's, C. ...	2	Mint Street ...	22	32	0	0
14	Chinnasawmy Mudali's, C. ...	7	Poodoopaukum ..	23	74	0	0
			Carried over...	275	717	5	0

GENERAL DEPARTMENT.

No.	Names of Schools.	Division.	Locality.	No. of Pupils Examined.	Amount of Grant.		
					RS.	A.	P.
			Brought forward...	275	717	5	0
15	Church Mission Society's Poor Girls'...	5	New Town ...	14	83	6	0
16	" " Mixed ...	2	John Pereira's ..	15	60	6	0
17	" " Boys' ...	5	New Town ...	15	55	8	0
18	" " Girls' ...	7	Chintadrepett ...	11	8	2	0
19	" " Mixed ...	5	Poodoopett ...	33	130	12	0
20	" " " ...	6	Thousand Lights ...	36	96	2	0
21	" " " ...	8	Tenampett ...	22	38	8	0
22	" " Boys' ...	7	Chintadrepett ...	11	33	0	0
23	" " Mixed ...	8	Royapett ...	22	87	10	0
24	" " " ...	6	Taylor's Road ...	21	69	0	0
25	" " " ...	5	Egmore ...	17	53	0	0
26	" " " ...	5	Kilpauk ...	22	50	4	0
27	" " Boys' ...	7	Chintadrepett ..	19	50	0	0
28	" " Mixed ...	1	Meenatcheammanpett ...	26	110	8	0
29	" " " ...	1	Royapoorum ...	19	68	6	0
30	" " Girls' ...	2	Elephant Gate ...	13	45	6	0
31	" " " ...	2	Mint Street ...	5	3	8	0
32	" " Mixed ...	1	Cassimode ...	12	15	8	0
33	" " Girls' ...	1	Korukapett ...	17	76	4	0
34	" " Boys' ...	3	Black Town ...	13	43	0	0
35	Durmalinga Chetty's, P. ...	7	Triplicane ...	24	46	12	0
36	Desakaliah's Mixed ...	2	Nattoo Pilliar Covil Street	12	20	4	0
37	Famine Orphanage Girls' ...	8	Mylapoor ...	37	127	0	0
38	Free Church Mission Mixed ...	3	Black Town ...	28	112	0	0
39	Goolam Ghouse's ...	7	Triplicane ..	10	9	12	0
40	Goolam Ghouse's Vernacular ...	7	Do. ..	13	47	12	0
41	Gungadara Mudali's, T. " ...	6	Nungumbaukum ...	17	32	3	0
42	Hajee Abdul Azeez's " ..	7	Triplicane ...	14	17	8	0
43	Hamed Saib's " ...	7	Do. ...	20	63	12	0
44	Joseph's, T. " ...	1	Tondiarpett ...	23	53	8	0
45	Kader Hoossain's " ...	4	Perambore ...	19	53	12	0
46	Kader Sheriff's Vernacular Mixed...	1	Washermanpett ...	10	14	0	0
47	" " " ...	1	Do. ...	4	10	8	0
48	" " " ...	1	Do. ...	18	31	12	0
49	Kakalu Charulu's, P. S. Mixed..	2	Govindappa Naick Street...	6	15	14	0
50	Kasava Mudali's, C. ...	7	Tiruvateeswaranpett ...	27	85	14	0
51	Kamalsing's, N. ...	7	Chintadrepett ...	31	67	8	0
52	Kristniah's, P. ...	5	Pursewalkum ...	8	15	13	0
53	Kristnaramanujiah's Mixed ...	2	Reddy Ramen Street ...	11	47	6	0
54	Kumarasawmy Pillay's, N. ...	2	Teagaroya Pillay Street ...	14	31	8	0
55	Kumarasawmy Mudali's, M. C.	2	Thondavaroya Pillay Street	9	18	8	0
56	Kundasawmy Vathyar's, P. ...	8	Mylapore ...	25	52	8	0
57	Kuppusawmy Mudali's, M. Mixed	3	Sourimuttu Street ...	19	82	2	0
58	Kuppiah's, R. ...	8	Mylapore ...	17	28	0	0
59	London Mission Poor Mixed ...	5	Pursewalkum ...	9	34	0	0
60	Mahomed Omer's Vernacular ...	7	Poodoopaukum ...	17	20	12	0
61	Mahomed Azeezudien's ...	3	Black Town ...	21	26	4	0
62	Medical Mission Mixed ...	1	Royapooram ...	31	112	10	0
63	Munnajee Row's ...	7	Poodoopaukum ...	13	33	0	0
64	Munesawmy Pillay's, C. ...	2	Teroopally Street ...	34	43	4	0
65	Murugasa Naicker's ...	7	Chintadrepett ...	27	73	8	0
66	Nadamooniah's, S. ...	2	Budriah's Gardens ...	13	64	8	0
			Carried over...	1,219	3,415	13	0

GENERAL DEPARTMENT.

No.	Names of Schools.	Division.	Locality.	No. of Pupils Examined.	Amount of Grant.		
					RS.	A.	P.
			Brought forward...	1,219	3,415	13	0
67	Nadamooney Chetty's, A. ...	3	Aucharappen Street ...	10	35	0	0
68	Narasingapooram Poor ...	7	Narasingapooram ...	23	123	8	0
69	Narasiah's, T. Mixed ...	2	Seven Wells' Street ...	9	22	2	0
70	Narasimmooloo Naidoo's, C. ...	7	Triplicane ...	19	29	7	0
71	Narayaniah's, T. Mixed ...	2	Davaroya Mudali Street ...	17	63	4	0
72	Peroomall Raju's, K. ...	2	Pareana Mudali Street ...	23	61	8	0
73	Ponnoosawmy Mudali's, T. ...	2	Manangappen Street ...	7	14	12	0
74	Ramaswamy Naidoo's ...	5	Choolay ...	6	13	0	0
75	Ramalinga Mudali's, M. ...	5	Do. ...	10	24	8	0
76	Ramalinga Chetty's, M. ...	8	Mylapore ...	11	8	8	0
77	Ramanuja Charry's, T. ...	8	Do. ...	14	55	12	0
78	Ramanujiah's, N. Mixed ...	2	Varada Mootheyappen St....	26	95	14	0
79	Ramanujiah's, P. Mixed ..	2	Govindappa Naick Street..	27	76	10	0
80	,, A. ,, ...	5	Pursewalkum ...	34	108	14	0
81	,, P. T. ,, ...	3	St. Xavier's Street ...	13	21	8	0
82	Roman Catholic Boys' ...	8	Royapett ...	20	32	15	0
83	,, Mixed ...	8	do. ...	20	35	12	0
84	Rungiah's, S. Girls' ...	3	Kundappah Chetty Street.	8	35	14	0
85	,, S. Boys' ...	3	do. ...	24	43	15	0
86	Rungasawmy Vathyar's ...	8	Mylapore ...	13	13	8	0
87	St. Antony's Girls' ..	5	Poodoopett ...	22	167	6	0
88	,, Boys' ...	5	do. ...	19	55	8	0
89	St. Francis Xavier's Caste Girls'	3	Black Town ...	26	208	7	0
90	,, ,, Pariah Girls'	3	do. ...	19	126	4	0
91	St. John's Mixed ...	5	Egmore ..	16	63	8	0
92	St. Lazarus' Boys' ...	7	Chintadrepett ...	11	32	0	0
93	,, Girls' ...	7	do ...	3	14	6	0
94	St. Matthias' Boys' ...	5	New Town ...	27	110	12	0
95	St. Xavier's Boys' ...	3	North Black Town ...	30	58	0	0
96	Sandiappa Mudali's Girls' ...	5	Pursewalkum ...	11	63	2	0
97	Saravana Vathyar's, P. ...	3	Linghi Chetty Street ...	33	104	4	0
98	Saravana Pillai's, C. Mixed ...	5	Pursewalkum ...	5	10	0	0
99	Seshadri Iyengar's, P. ...	2	Davaroya Moodelly Street..	16	55	0	0
100	Shaik Imam's Vernacular ...	1	Washermanpett ...	11	25	12	0
101	,, ,, ...	1	Do ...	15	37	8	0
102	Shanmooga Mudali's, P. ...	5	Periamett ...	7	14	0	0
103	Srinivassa Charry's, A. ...	7	Chintadrepett ...	22	68	0	0
104	Scottish Ladies' Mission Industrial Mixed ..	5	Egmore ...	12	54	8	0
105	Sitaramiah's, K. Mixed ...	2	Elai Kundappa Chetty Street ...	9	27	12	0
106	Streenivassaloo Chetty's, N. ...	2	Veerappen Street ...	34	68	0	0
107	S. P. G. Boys' ...	8	Sullivan's Gardens ...	22	69	8	0
108	,, Mixed ...	6	Nungumbaukum ...	44	150	10	0
109	,, Boys' ...	8	St. Thomé ...	11	25	8	0
110	Subbaramiah's, G. ...	2	Veerappen Street ...	14	43	8	0
111	Syed Jaffer's Vernacular ...	1	Washermanpett ...	30	84	0	0
112	Syed Kut Buddeen's Vernacular.	7	Triplicane ...	20	59	4	0
113	Thanappa Mudali's ...	8	Royapett ...	6	15	8	0
114	Theagaroya Mudali's, K. ...	1	Jandrapett ...	23	91	12	0
115	Tiruvengadiah's, P. ...	5	Erungundrum ...	18	76	0	0
116	Tolasinga Mudali's, P. ...	7	Poodoopaukum ...	11	30	0	0
117	Vadivelu Mudali's, M. ...	8	Mylapore ...	25	71	4	0
118	Varamaniah's, P. Mixed ...	3	Munnarsawmy Covil Lane.	27	105	10	0
			Carried over...	2,152	6,518	9	0

GENERAL DEPARTMENT.

No.	Names of Schools.	Division.	Locality.	No. of Pupils Examined	Amount of Grant. RS.	A.	P.
			Brought forward...	2,152	6,518	9	0
119	Velu Mudali's, C. ...	3	Pedaryar Covil Street ...	9	20	8	0
120	Venoyaga Mudali's, P. Mixed...	8	Mylapore ...	17	49	0	0
121	Vepery Mission Tope ...	5	Vepery ...	34	64	8	0
122	Vydenada Mudali's, V. ...	2	Mint Street ...	13	30	0	0
			Total Results Grants...	2,225	6,682	9	0
	Pay to the Inspecting Schoolmasters			1,135-14-9			
	Allowances do.			319-11-0			
					1,455	9	9
	Contingencies for Stationery and Printing				119	14	3
			Total Rupees...		8,258	1	0

Vaccination—The expenditure on account of Vaccination was Rs. 4,680-3-1, made up of Rs. 3,228-4-3 for Establishment, and Rs. 1,451-14-10 for Contingencies.

The Establishment consists of :—

1 1st Class Deputy Inspector ...	...Rs. 70	0	0	per mensem.
4 Do. Vaccinators, each at Rs. 18 ...	„ 72	0	0	„
9 Second Class Male „ „ 10 ...	„ 90	0	0	„
3 Do. Female „ „ 10 ...	„ 30	0	0	„
1 Probationer	„ 5	0	0	„
1 Peon...	„ 7	0	0	„

The item, Rs. 1,451-14-10, Contingencies, consists of :—

Children's batta, at 3 pies each	Rs. 210	2	3
Batta to mothers for arm lymph, at 4 annas each, maximum	„ 1,169	1	0
Stationery, Printing charges, &c.	„ 72	11	7
	1,451	14	10

Amount realized by the sale of lymph ... ... Rs. 6 7 0.

The operations and their results are shown in the following statements :—

Under 1 year.

Months.	Males.	Females.	Total of Males and Females.	Results. Success.	Unsuccess.	Unknown.
January	273	224	497	467	14	16
February	318	287	605	572	18	15
March	432	367	799	758	13	28
April	334	308	642	596	21	25
May	407	335	742	693	19	30
June	401	255	656	607	21	28
July	378	301	679	628	22	29
August	380	289	669	629	14	26
September	415	308	723	695	14	14
October	499	354	853	824	11	18
November	379	284	663	632	6	25
December	350	294	644	625	3	16
Total...	4,566	3,606	8,172	7,726	176	270

GENERAL DEPARTMENT.

From 1 to under 6 years.

Months.	Males.	Females.	Total of Males and Females.	Results.		
				Success.	Unsuccess.	Unknown.
January	279	224	503	434	33	36
February	305	278	583	520	32	31
March	480	424	904	807	46	51
April	381	333	714	656	20	38
May	433	289	722	640	41	41
June	373	271	644	559	42	33
July	399	324	723	642	35	46
August	332	315	647	575	28	44
September	369	294	663	579	31	53
October	373	314	687	639	22	26
November	345	292	637	576	38	23
December	354	252	606	570	10	26
Total...	4,423	3,610	8,033	7,207	378	448

6 years and above.

Months.	Males.	Females.	Total of Males and Females.	Results.		
				Success.	Unsuccess.	Unknown.
January	321	182	503	382	57	64
February	400	259	659	519	80	60
March	500	358	858	656	99	103
April	561	328	889	704	119	66
May	461	306	767	589	118	60
June	490	297	787	583	142	62
July	512	264	776	563	136	77
August	434	292	726	454	114	158
September	452	254	706	551	77	78
October	481	260	741	540	106	95
November	483	281	764	584	102	78
December	449	236	685	532	71	82
Total...	5,544	3,317	8,861	6,657	1,221	983

GENERAL DEPARTMENT.

Total of all Ages.

Months.	Males.	Females.	Total of Males and Females.	Results.		
				Successful.	Unsuccessful.	Unknown.
January	873	630	1,503	1,283	104	116
February	1,023	824	1,847	1,611	130	106
March	1,412	1,149	2,561	2,221	158	182
April	1,276	969	2,245	1,956	160	129
May	1,301	930	2,231	1,922	178	131
June	1,264	823	2,087	1,759	205	123
July	1,289	889	2,178	1,833	193	152
August	1,146	896	2,042	1,658	156	228
September	1,236	856	2,092	1,825	122	145
October	1,353	928	2,281	2,003	139	139
November	1,207	857	2,064	1,792	146	126
December	1,153	782	1,935	1,727	84	124
Total...	14,533	10,533	25,066	21,590	1,775	1,701

A summary of which is as follows :—

	Under one year.			1 and under 6 years.			6 years and above.			Total.		
	Male.	Female	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Europeans and Eurasians..	147	109	256	85	70	155	180	71	251	412	250	662
Mohamedans	485	373	858	476	393	869	382	213	595	1,343	979	2,322
Hindoos	3,867	3,076	6,943	3,798	3,103	6,901	4,952	2,992	7,944	12,617	9,171	21,788
Native Christians... ...	67	48	115	64	44	108	30	41	71	161	133	294
Total...	4,566	3,606	8,172	4,423	3,610	8,033	5,544	3,317	8,861	14,533	10,533	25,066
Successful...		7,726			7,207			6,657			21,590	
Unsuccessful		176			378			1,221			1,775	
Unknown		270			448			983			1,701	

The total number of cases operated was 25,066, showing an increase of 3,760 cases as compared with 1879, includes primary vaccination 24,149, and re-vaccination 917; the result of the latter being 550 successful, 169 unsuccessful, and 193 unknown. The extent of the operation compares favourably with that of the preceding year, when it was 21,306.

Attention was successfully directed to the vaccination of infants and the number is nearly double among those "Under 1 year" as compared with 1879 :—

Under one year.

	Males.	Females.	Total.
In 1879	3,065	2,842	5,907
„ 1880	4,566	3,606	8,172
Excess in 1880 ...	1,501	764	2,265

The ratio of number of infants vaccinated to number of births registered shews a satisfactory improvement:—

	Births registered.	Number vaccinated under 1 year.	Number vaccinated to births.
In 1879... ...	16,629	5,907	35·52
„ 1880... ...	16,077	8,172	50·83

The following comparative statement shows the total number of cases operated on in 1879.

Year.	Total.	Successful.	Unsuccessful.	Unknown.
In 1879	21,306	17,009	1,645	2,652
„ 1880	25,066	21,590	1,775	1,701
Increase in 1880...		3,760		

The operations of 1880 show an improvement in another particular, namely, as to results, the proportion to number vaccinated being :—

	In 1879.	In 1880.
Successful ...	79·83	86·13
Unsuccessful ...	7·72	7·08
Unknown ...	12·45	6·79

Comparing results with the whole population it appears that a little over 6 per cent. of the population were vaccinated, The Mohamedans contributed only 4·56. The several classes show as follows :—

	Europeans and Eurasians.	Mohamedans.	Hindoos and Native Christians.	Total.
Under 1 year...	256	858	7,058	8,172
1 to under 6 years	155	869	7,009	8,033
6 years and above	251	595	8,015	8,861
	662	2,322	22,082	25,066
Population	15,626	50,964	330,962	397,552
Number vaccinated to population..	4·24	4·56	6·67	6·30

APPENDIX III.

R. No. 784 (*a.*)

REVENUE DEPARTMENT,
MUNICIPAL OFFICE,
MADRAS, 10*th June* 1881.

From

P. RAMASAWMY CHETTY,
Vice-President.

To

A. T. ARUNDEL, ESQ., M. C. S.,
Acting President, Municipal Commission, Madras.

SIR,

I have the honor to submit herein a report of the administration of this Department for the year 1880.

Elections of Commissioners.

2. No election was made, as none was necessary. Lists of persons qualified to be elected and to vote were, however, revised; and they exhibited finally 316 persons qualified to be elected, and

222 ...	qualified to vote for the	1st Division.
555 ...		2nd do.
694 ...		3rd do.
38 ...		4th do.
343 ...		5th do.
248 ...		6th do.
193 ...		7th do.
199 ...		8th do.

Taxation.

3. The Taxes, &c. specified below were realized and are compared with the outcome of the previous year.

Heads.	1880.			1879.		
	Arrear.	Current.	Total.	Arrear.	Current.	Total.
	RS.	RS.	RS.	RS.	RS.	RS.
I. Tax on Arts, &c.	10,631	42,450	53,081	34,825	77,864	1,12,689
II. Tax on Houses, Buildings and Lands	19,933	3,33,773	3,53,706	10,870	3,24,869	3,35,739
III. Payments for occupation of Municipal Lands ...	872	8,889	9,761	425	9,285	9,710
IV. Water Tax.	7,098	94,147	1,01,245	...	1,25,313	1,25,313
V. Lighting Tax	2,055	40,449	42,504	...	39,362	39,362
VI. Tax on Vehicles on springs and animals... ...	573	45,675	46,248	409	42,465	42,874
VII. Tax on Carts and other vehicles without springs ...	1	14,133	14,134	43	13,722	13,765
VIII. Tolls on vehicles and animals	...	38,700	38,700	3,600	40,517	44,117
IX. Tax on places used for sale of Liquor	241	13,380	13,621	248	13,220	13,468
X. Demand and Warrant Fees	...	3,631	3,631	...	4,192	4,192
Total...	41,404	6,35,227	6,76,631	50,420	6,90,809	7,41,229

4. They exhaust the Taxes under the present Municipal Law, save that on Military Professions reserved by Government.

REVENUE DEPARTMENT.

Tax on Arts, Professions, Trades, Callings, Offices and Appointments under Section 103.

5. This Tax was assessed in gross at Rs. 51,339-8-0 as per details following, viz. :—

Locality.	Classification.												
	I.						II.	III.	IV.	V.	VI.	VII.	Total.
	A.	B (1).	B (2).	C.	D.	Proviso.							
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1st Division ...	500	...	...	...	600	...	300	200	100	90	280	228	2,298
2nd do. ...	...	...	..	...	450	...	500	1,225	912-8	735	1,000	603	5,425-8
3rd do. ...	6,000	700	1,000	200	5,850	2,950	2,600	3,850	3,100	3,630	3,216	1,978-8	35,074-8
4th do. ...	...	...	...	200	...	...	...	...	25	15	112	21	373
5th do. ...	500	...	...	...	150	...	100	575	450	172-8	408	216	2,571-8
6th do. ...	...	...	...	...	...	...	350	250	350	120	148	99	1,317
7th do. ...	...	...	...	...	450	...	300	1,350	412-8	262-8	520	297	3,592
8th do. ...	...	...	...	...	150	...	200	150	50	45	48	45	688
Total...	7,000	700	1,000	400	7,650	2,950	4,350	7,600	5,400	5,070	5,732	3,487-8	51,339-8

The gross demand for 1879 was Rs. 1,35,633, for 1878 Rs. 1,46,216, and for 1877 Rs. 1,41,368, making an average of Rs. 1,41,072. The great disparity between it and the last year's demand is due to the decision of the High Court that income should invariably be the test.

6. The demand thus estimated comprised the companies and persons divisionally classified in Appendix I, and they are similarly distributed according to Professions and Nationality in Appendices II and III respectively.

7. In 419 cases of the year's demand, revision was applied for and made under Section 104, the result being that the assessment was confirmed in 84 cases, reduced in 114 cases, and written off in the remaining 221 cases.

8. 13 cases were heard and disposed of at 3 sittings under Section 189, with the result that the classification was ordered to stand in 10 cases and reduced in the remaining 3.

9. Of this demand, Rs. 42,449-8-0 were collected and Rs. 4,607 remitted; and there remained outstanding at the end of the year Rs. 4,283 in the following divisional proportions, viz. :—

Locality.	Demand.		Collection.		Remission.		Balance.	
1st Division ...	2,298	0	2,074	0	138	8	85	8
2nd do ...	5,425	8	4,464	0	587	0	374	8
3rd do ...	35,074	8	29,105	8	2,758	8	3,210	8
4th do ...	373	0	330	8	19	0	23	8
5th do ...	2,571	8	2,249	8	260	8	61	8
6th do ...	1,317	0	1,013	0	189	8	114	8
7th do ...	3,592	0	2,736	8	587	8	268	0
8th do ...	688	0	476	8	66	8	145	0
Total...	51,339	8	42,449	8	4,607	0	4,283	0

The realizable portion of this balance would be below 1,000 Rupees: so that the realizable demand for the year may be fairly taken at Rs. 43,000 less than one-half of what it used to be under the former system of relative taxation.

10. The coercive processes chiefly resorted to in the realization of this demand were Magisterial prosecutions, of which 879 were instituted. 3 cases only were taken before the Magistrate, the result being conviction and fines aggregating Rs. 1-4-0. There were but 66 Demand Notices and 29 Warrants issued.

REVENUE DEPARTMENT.

11. The departmental machinery was more freely utilized (377 Notices of demand and 210 Warrants were issued, in addition to 219 Magisterial prosecutions) for the collection of arrears, of which

Rs. 28-0-0	were collected	for 1876
Rs. 1,015-0-0	do.	for 1877
Rs. 2,794-8-0	do.	for 1878 and
Rs. 6,793-5-4	do.	for 1879

making an aggregate of Rs. 10,630-13-4 against Rs. 34,825 in 1879, Rs. 26,222 in 1878, and Rs. 27,961 in 1877, in each of which years the outstanding balances of previous years were considerably larger.

12. The total collection of the year for current demand and arrears was Rs. 53,080-5-4 against Rs. 45,000 budgeted, whilst the year 1879 produced Rs. 1,12,689, 1878 Rs. 89,743, and 1877 Rs. 94,658, making an average of Rs. 99,030.

13. The accounts for the year 1875 and 1876 were finally closed, the result being as follows, viz.:—

	Demand.	Collection.	Remission.	Irrecoverable Balance.
1875	... 1,14,072	73,258 14 1	19,281 1 8	21,532 0 3
1876	... 1,08,486	79,241 3 0	18,928 0 0	10,316 13 0

The accounts of the subseqnent years are fast approaching termination, that for 1877 having been already wound up, under the management of the new Superintendent, his predecessor having been dispensed with for lax supervision.

Tax on Houses, Buildings and Lands under Sections 119 and 120.

14. The Revision of this Tax for the year resulted in a gross demand of Rs. 3,50,283-11-7, made up of Rs. 3,49,789-12-8, being the net demand of the year preceding, as already reported, minus Rs. 57-15-0 by which the same was decreased by subsequent amendments, and Rs. 1,971-13-8 for 524 exemptions and reductions and plus Rs. 2,523-11-7 for 446 new assessments and increases, as shewn in the abstract appended and marked IV.

15. Such gross demand was reduced, on the disposal, at 11 sittings of the Commissioners, of 1,305 complaints or objections, to Rs. 3,46,069-8-4. The proportion thereof appertaining to each of the Divisions, together with other particulars as to area, population and number of premises comprised in each Division, &c., is exhibited in Appendix V.

16. In Appendix VI, it is compared with the net demands of the three years preceding, shewing a fall of Rs. 2,661 from 1877, Rs. 6,356 from 1878, and Rs. 3,662 from 1879. This fall is owing principally to depreciation of rental value of property chiefly in that part of the 3rd Division—the North Beach—where Trade is carried on by Native Merchants in grains.

17. The number of new and increased assessments was less than the average of the previous three years, whilst the cases in which exemption and reduction were allowed, and the number of appeals against standing assessment, were much larger, as shown by Appendix VII.

18. A graduated scale of the valuations settled for the year is comprised in Appendix VIII.

19. On account of the said demand of Rs. 3,46,069-8-4, a sum of Rs. 3,33,772-10-0 was collected, which, with Rs. 5,833-3-3 remitted on vacancy and other grounds, left an uncollected balance at the end of the year, of Rs. 6,463-11-1.

20. Of the arrears (viz. Rs. 29,030-10-5) outstanding at the commencement of the year, which, by subsequent amendments was reduced to Rs. 28,979-0-11, Rs. 19,933-9-4 were realized, Rs. 6,908-6-8 were remitted and Rs. 2,137-0-11 remain over.

21. The total collection was, therefore, Rs. 3,53,706-3-4 against an estimate of Rs. 3,60,000-0-0 budgeted.

REVENUE DEPARTMENT.

22. A Divisional abstract of the Demand, Collection and Remission, distinguishing the current demand from arrears, and shewing the uncollected balances abovementioned, is exhibited in Appendix IX.

23. The results of the year compare favorably with those of the three preceding years, according to the statement appended marked X.

24. The following processes were made use of for the realization of this and Water and Lighting Taxes jointly, viz. :—

Notices under Section 196		...64,120
Notices of demand under Section 197		...44,901
Warrants of distress „	...14,081	...16,361
Unexecuted Warrants of previous years	... 2,280	
Of these Warrants, adjusted before execution	...12,307	
adjusted after execution and before sale of distress.	2,322	
adjusted by sale of distress	... 554	
cancelled as irrecoverable	... 354	
pending execution and adjustment at the end of the year	824	

25. The Warrants of distress issued in the course of the year relate to the series of property described below and to the extent set opposite to each series.

Warrants as to property of the annual value of	Rs.	14	...	754
Do.	do.	„ 24	...	2,498
Do.	do.	„ 48	...	4,006
Do.	do.	„ 96	...	3,929
Do.	do.	„ 192	...	1,874
Do.	do.	„ 384	...	620
Do.	do.	„ 786	...	226
Do.	do.	„ 1,536	...	126
Do.	do.	„ 3,072	...	45
Do.	do.	„ 6,244	...	3

Payment for occupation of Municipal Lands under Section 137.

26. This payment, assessed quarterly, amounted, for the year, to Rs. 10,230-12-0 against Rs. 9,433 for 1879, Rs. 8,811 for 1878 and Rs. 7,267 for 1877 or an average of Rs. 8,504; and Rs. 8,888-7-11 were collected, leaving a balance of Rs. 1,235-10-4 after deducting Rs. 106-9-9 remitted.

27. There were Rs. 3,512-15-11 arrears of former years, which were reduced by remissions to Rs. 886-8-4, of which Rs. 872-8-10 were realized, and Rs. 13-15-6 remain over.

28. Thus, a total sum of Rs. 9,761-0-9 (minus Rs. 22-2-6 refund) was collected towards Rs. 8,000 budgeted, whilst the realizations of 1879, 1878, and 1877 were Rs. 9,710, Rs. 5,656 and Rs. 9,840 respectively, the average being Rs. 8,402.

29. A statement of the quarterly Demand, Remission and Collection, including arrears and exhibiting a balance at the end of the year of Rs. 1,249-9-10 is set out in Appendix XI.

30. The following processes were adopted in connection with this Tax.

Notices under Section 196		13,949
Warrants of Distress under Section 197	4,273	6,011
Unexecuted Warrants of previous years	1,738	
Warrants adjusted before execution	3,328	
adjusted after execution and before sale of distress	424	
adjusted by 13 sales of distress, 13 cases resulting in surplus	17	
partially adjusted by sale of distress ...	17	
cancelled by Remission	2,037	
pending execution...	188	

REVENUE DEPARTMENT.

Water Tax under Section 139.

31. The demand in this case was fixed, as approximately as possible, at Rs. 101,566-7-4, regard being had to the ruling of the High Court in Messrs. Johnstone and Branson's suits against the Municipality, that no property should be assessed unless it was possible to supply it with water within 150 yards of it. Rs. 94,147-3-1 of it were collected, leaving a balance, after deducting remissions allowed to the extent of Rs. 1,068-2-6, of Rs. 6,351-1-9.

32. The previous year's demand, covering as it did, the whole Municipal area, was Rs. 135,824-12-2, whereof Rs. 9,110-13-10 remained uncollected at the beginning of last year, which, by subsequent amendments, was reduced to Rs. 9,061-8-6. This was subject to further remissions aggregating Rs. 1,380-9-6 and there remained a balance, at the end of the past year, of Rs. 583-1-5, the difference, viz., Rs. 7,097-13-7 having been realized. Part of these remissions was owing to the ruling above referred to, which involved much correspondence and discussion with Tax-payers.

33. The operations of the past two years stand thus.

	Demand.	Budget.	Collection to 31st Dec. 1880.	Remission to 31st Dec. 1880.	Balance. on 31st Dec. 1880.
1879	135,766	128,000	132,411	2,782	583
1880	101,566	75,000	94,147	1,068	6,351

and I append hereto a statement marked XII, shewing a divisional distribution of the Demand, Remission, Collection and Balance of the year under report, distinguishing the uncollected balance of the year preceding.

Lighting Tax under Section 151.

34. This revenue was assessed at Rs. 42,212-1-6 against Rs. 42,455-9-6 of the previous year. A sum of Rs. 40,448-13-4 was collected on account of the former and Rs. 2,055-3-11 towards the latter, making an aggregate of Rs. 42,504-1-3 towards Rs. 42,000 in the Budget against Rs. 39,362-6-4 collected in the previous year.

35. The following was the status of this account at the end of the year under report.

	Demand.	Budget.	Collection up to 31st Dec. 1880.	Remission up to 31st Dec. 1880.	Balance on 31st Dec. 1880.
1879	42,439	39,375	41,417	874	148
1880	42,212	42,000	40,449	726	1,037

and I annex a statement marked XIII, containing a distribution of this account division-warri.

36. Before passing on to the next matter, the proceedings had in connection with the embezzlement of Municipal moneys by the late House, Water and Lighting Tax Conicopillay, Cawnpore Lutchmana Sing, is noticeable. His accomplice, Narrainasawmy Moodelly, was apprehended under a Magistrate's Warrant but allowed to be released, without prejudice, owing to the absence of the principal offender. The Superintendent in charge of this Branch of the Department was degraded for carelessness in the matter of examination of Bills entrusted to Conicopillays. P. Theroovengada Moodelly, a Distraining Inspector, who seemed implicated in the affair, was prosecuted for criminal breach of trust and sentenced to 4 months, rigorous imprisonment and a fine of 100 Rupees and in default of payment thereof, to imprisonment for a further period of 2 months. A Committee was appointed by the Commissioners for enquiring into the working of the Department with respect to these Taxes. Their report together with the resolution of the Commissioners upon it I append marked XIV. The President's report to Government on the matter was published in the Administration Report for 1879.

Tax on Vehicles on Springs and Animals, under Section 155.

37. Close criticism of the action of the out-door staff, and dismissal from service of the Chief Inspector and one of his deputies, found guilty of foul play, tended to improve the collection, which amounted to Rs. 45,674-12-0 for current demand for the vehicles and animals particularized in Appendix XV, and Rs. 572-12-0

for arrears, making an aggregate of Rs. 46,247-8-0 against an estimate of Rs. 43,000, whilst the sum collected in 1879 was Rs. 42,874, in 1878 Rs. 37,343 and in 1877 Rs. 40,800, the average being Rs. 40,329.

38. The number of vehicles and animals licensed for the year, is compared with those for the previous three years in Appendix XVI, shewing an increase in all cases. About 2,000 Rupees worth of collectable arrears remain over.

39. The year's operations were attended with considerable trouble in revising and adjusting assessments made by two independent sets of men working against each other.

40. The processes adopted for collecting this tax were—

9,443 Forms under Section 160.
5,975 Bills under Section 162.
2,940 Magisterial proceedings under Section 167
233 Notices of demand under Section 197 and
66 Warrants of distress under Section 197.

2,756 of the cases laid before the Magistrates were compromised and withdrawn and 184 were prosecuted to the levy of fines to the extent of Rs. 14-6-0.

Tax on Carts and other Vehicles without Springs, under Section 168.

41. 5,006 carts were registered voluntarily, and 2,064 on seizure, on payment of Rs. 14,132-14-2 for both half-years. A further sum of Rs. 0-15-2 was collected for arrears, making together Rs. 14,133-13-4 (the Budget estimate being Rs. 13,000) against Rs. 13,765 in 1879, Rs. 15,684 in 1878 and Rs. 17,817 in 1877 (the last being the Famine year) or an average of Rs. 15,755. In 8 cases, payment was coerced by sale of seized carts.

42. There is no balance worth notice.

Tolls on Vehicles and Animals entering the Municipal limits, under Section 174.

43. This revenue was, as usual, farmed out. The amount secured for the year was Rs. 38,200 against Rs 44,200 in 1879, Rs. 43,200 in 1878 and Rs. 45,000 in 1877 or an average of Rs. 44,133. The sum of Rs. 38,700 realized in the year consists of 11 of the 12 instalments in which the contract amount for the year was payable, plus the last instalment under the previous year's arrangement.

44. The vehicles and animals detailed in Appendix XVII were compounded for on behalf of the Farmers with residents out of the Municipal limits, and the same Appendix sets out for comparison the numbers similarly dealt with in previous three years.

Tax upon places used for the sale of Spirituous and Intoxicating Liquors under Section 183.

45. This tax was assessed at Rs. 14,015 on the shops and in the classes abstracted below:—

Description of Shops.	Class.				Total Number of Shops.	Amount of Assessment
	I.	II.	III.	IV.		
						Rs.
Beer, Wines and Spirits	4	88	...	...	92	4,700
Puttai Arrack	2	2	14	35	53	1,020
Columbo Arrack	6	21	19	5	51	2,035
Toddy	...	54	56	180	290	6,260
Total...	12	165	89	220	486	14,015

against an average of the previous three years of Rs. 12,688, the demand for 1879 being Rs. 15,100, for 1878 Rs. 11,593 and for 1877 Rs. 11,372. A divisional distribution of the shops assessed, shewing the ratio of population to each shop is appended marked XVIII, and their number is compared in Appendix XIX with those of the previous three years.

46. Revision was applied for in 62 cases, and Rs. 137 were struck off which reduced the demand to Rs. 13,878. Rs. 13,380 of it were collected, leaving a balance of Rs. 498 to lie over, of which about one-half is irrecoverable.

47. A sum of Rs. 241-7-5 was also collected for arrears of former years, which made the total collection Rs. 13,621-7-5, to meet a budget of Rs. 13,000, against Rs. 13,468, collected in 1879, Rs. 10,457 in 1878 and Rs. 10,504 in 1877, or an average of Rs. 11,476.

48. The following processes were made use of for the collection of this Tax :—

485 Notices under Section 187,
28 Notices of demand under Section 197,
22 Warrants of Distress under Section 197, and
408 Magisterial prosecutions under Section 187,

The prosecutions were pressed in 16 cases to the levy of fines amounting together to Rs. 35, and where, as in 22 cases, that measure was defeated by evading the service or execution of Magisterial processes, the summary procedure of distraint was availed of whenever practicable.

Demand and Warrant Fees.

49. This collection amounts to Rs. 3,631 which exceeds the budget estimate of Rs. 3,500.

I have the honor to be,
Sir,
Your most obedient servant,
P. RAMASAWMY CHETTY,
Vice-President.

APPENDIX I.

Classified arrangement of persons assessed to Tax on Arts, &c., for 1880, *compared with* 1877, 1878 *and* 1879.

Locality.	Number of persons classified for 1880.												Total.	Percentage assessed to total population.	Total for 1877.	Total for 1878.	Total for 1879.	Average of the last 3 years.	Percentage of the average to total population.
	I.						2	3	4	5	6	7							
	A.	B¹.	B².	C.	D.	Proviso.													
1st Division...	1	...	..	...	4	...	3	4	4	6	35	76	133	·202	577	527	689	598	·91
2nd do	...	...	...	...	3	...	5	25	37	49	125	201	445	·59	1,896	2,172	2,129	2,066	2· 8
3rd do	12	2	4	1	39	23	26	78	127	246	405	662	1,625	3·18	3,646	3,793	3,586	3,675	6·99
4th do	...	...	...	1	...	...	...	...	1	1	14	7	24	·24	181	163	146	163	1·66
5th do	1	...	...	...	1	...	1	12	18	12	51	72	168	·25	881	922	864	889	1·35
6th do	...	...	...	...	...	...	4	5	14	8	19	33	83	·42	215	223	194	211	1·08
7th do	...	...	...	...	3	...	3	28	17	18	66	100	235	·33	955	1,092	1,073	1,040	1·49
8th do	...	...	...	...	1	...	2	3	2	3	6	15	32	·07	245	241	250	245	·59
Total...	14	2	4	2	51	23	44	155	220	343	721	1,166	2,745	·69	8,596	9,133	8,931	8,887	2·23

APPENDIX II.

Abstract of Professions assessed for 1880.

No.	Professions.	Division.								
		1st	2nd	3rd	4th	5th	6th	7th	8th	Total.
1	Apothecaries	1	...	...	...	1	...	...	...	2
2	Artizans	1	5	5	...	3	2	15	...	31
3	Auctioneers	...	...	1	...	...	...	4	...	5
4	Boarding House & Hotel keepers	...	1	3	...	2	4	2	...	12
5	Boat Owners	1	...	4	...	...	...	...	...	5
6	Brokers and Dallals ...	...	12	61	...	7	1	5	...	86
7	Builders	...	...	4	...	1	3	3	2	13
8	Civil Engineers	1	...	...	...	...	...	...	...	1
9	Contractors	1	2	8	...	2	1	1	...	15
10	Dancers and Musicians ...	...	...	...	...	1	...	...	...	1
11	Dealers in Carriages & Horses...	...	...	2	...	2	3	1	...	8
12	Dentists	...	...	...	...	...	1	...	...	1
13	Dubashes	...	...	30	...	...	...	...	...	30
14	Editors of Newspapers ...	...	...	3	...	...	...	...	...	3
15	Hakims	...	...	5	...	...	...	...	...	5
16	Joint Stock Companies ...	2	15	58	1	14	2	4	1	97
17	Manufacturers	2	...	18	...	2	2	7	...	31
18	Merchants, Agents and Sowcars	40	257	510	5	32	3	24	1	872
19	Owners of Markets ...	1	2	2	...	3	...	2	...	10
20	Owners of Printing Presses ...	...	3	16	...	1	2	...	...	22
21	Petty money lenders & Traders in money	2	13	12	3	13	...	6	2	51
22	Photographers	...	...	4	...	...	1	...	...	5
23	Pleaders	...	...	3	...	...	...	...	...	3
24	Practising Barristers-at-Law, Vakils and Attorneys, High Court	...	...	61	...	1	...	1	2	65
25	Practising Surgeons and Physicians	...	...	5	...	2	...	...	...	7
26	Salaried persons	76	30	533	14	76	40	138	22	929
27	Shopkeepers	2	6	54	1	1	14	12	2	92
28	Suppliers	...	...	4	...	...	1	...	...	5
29	Traders	3	99	219	...	4	3	10	...	338
	Total...	133	445	1,625	24	168	83	235	32	2,745

APPENDIX III.

Distribution according to Nationality of persons assessed to Tax on Arts, &c., for 1880.

Locality.	Hindus.	Mahomedans.	Others.	Joint Stock Companies.	Total.
1st Division	54	1	76	2	133
2nd do	384	18	28	15	445
3rd do	877	162	528	58	1,625
4th do	6	3	14	1	24
5th do	58	19	77	14	168
6th do	26	2	53	2	83
7th do	90	12	129	4	235
8th do	11	2	18	1	32
Total...	1,506	219	923	97	2,745

APPENDIX IV.

Abstract of increase and decrease of Assessments made in the course of revision of House Tax for the calendar year 1880.

Locality.	Increase.									Tax at 10 per cent. thereon			Decrease.									Tax at 10 per cent. thereon.		
	New Assessment.			Increase of Assessment.			Total.						Exemption.			Reduction.			Total.					
	Number of Cases.	Amount of Valuation.		Number of Cases.	Amount of Valuation.		Number of Cases.	Amount of Valuation.					Number of Cases.	Amount of Valuation.		Number of Cases.	Amount of Valuation.		Number of Cases.	Amount of Valuation.				
		RS.	A.		RS.	A.		RS.	A.	RS.	A.	P.		RS.	A.		RS.	A.		RS.	A.	RS.	A.	P.
1st Division	15	1,902	0	22	569	0	37	2,471	0	247	1	7	62	1,703	0	8	408	0	70	2,111	0	211	1	8
2nd do	33	2,231	0	97	4,263	0	130	6,494	0	649	6	5	34	2,113	0	21	692	0	55	2,805	0	280	8	0
3rd do	9	660	0	76	3,379	0	85	4,039	0	403	14	5	28	2,516	0	17	1,023	0	45	3,539	0	353	14	5
4th do	4	166	0	3	63	0	7	229	0	22	14	5	23	439	12	1	18	0	24	457	12	45	12	5
5th do	9	1,827	0	33	1,324	12	42	3,151	12	315	2	9	87	3,269	4	12	745	0	99	4,014	4	401	6	10
6th do	9	165	0	49	2,062	0	58	2,227	0	222	11	2	20	608	0	2	59	0	23	667	0	66	11	2
7th do	18	556	0	27	4,351	0	45	4,907	0	490	11	2	98	2,927	12	19	509	4	116	3,437	0	343	11	2
8th do	12	468	0	30	1,250	8	42	1,718	8	171	13	8	83	1,974	8	14	713	0	92	2,687	8	268	12	0
Total...	109	7,975	0	337	17,262	4	446	25,237	4	2,523	11	7	435	15,551	4	94	4,167	4	524	19,718	8	1,971	13	8

APPENDIX V.

Abstract showing the assessed and net demand of House Tax, &c., for the calendar year 1880.

Locality.	Area in square miles.	Number of premises not liable to rate and therefore not assessed.	Number of rateable premises.	Population.	Ratio of population to holdings.	Proportion of space occupied by each individual in square yards.	Gross Demand levied.					Number of appeals admitted and heard.	Number of appeal sittings.	Reduction granted on disposal of such appeals by Commissioners.					Net Demand after allowing such reduction.					Incidence of rate per head of population.		
							Valuation.		Rate at 10 per cent.					Valuation.		Rate at 10 per cent.			Valuation.		Rate at 10 per cent.					
							RS.	A.	RS.	A.	P.			RS.	A.	RS.	A.	P.	RS.	A.	RS.	A.	P.	RS.	A.	P.
1st Division	5·31	903	3,503	65,547	15·00	250·93	3,10,249	0	31,023	13	7	74	1	4,164	0	416	6	5	3,06,085	0	30,607	7	2	0	7	5
2nd „	1·02	676	6,867	75,326	9·95	41·94	6,71,304	8	67,130	3	8	122	2	3,557	0	355	11	2	6,67,747	8	66,774	8	6	0	14	2
3rd „	0·91	772	5,577	50,957	6·96	55·12	8,53,184	0	85,318	7	7	178	2	18,404	0	1,840	6	5	8,34,780	0	83,478	1	2	1	10	2
4th „	3·88	334	571	9,791	10·95	1,227·53	97,786	4	9,778	5	9	14	1	741	0	74	1	7	97,045	4	9,704	4	2	0	15	7
5th „	2·81	1,237	4,820	65,491	10·78	132·90	5,18,454	4	51,844	10	3	114	2	2,624	0	262	6	5	5,15,830	4	51,582	3	10	0	12	7
6th „	4·16	494	1,254	19,390	11·52	664·00	3,06,895	12	30,689	0	0	45	1	1,013	0	101	4	10	3,05,882	12	30,587	11	2	1	9	2
7th „	2·19	1,399	6,028	69,568	9·42	97·54	4,56,481	8	45,647	10	10	275	1	7,594	4	759	6	10	4,48,887	4	44,888	4	0	0	10	4
8th „	6·54	1,298	3,459	41,482	8·54	488·36	2,88,518	4	28,851	7	11	152	1	4,044	12	404	7	7	2,84,473	8	28,447	0	4	0	11	0
Total...	26·82	7,113	32,079	3,97,552	9·94	208·97	35,02,873	8	3,50,288	11	7	974	11	42,142	0	4,214	3	3	34,60,731	8	3,46,069	8	4	0	13	11

APPENDIX VI.

Statement of House Tax assessed for the calendar year 1880 *as contrasted with the three preceding years.*

Locality.	Net Demand of 1877.							Net Demand of 1878.							Net Demand of 1879.						
	Number of premises not liable to rate and therefore not assessed.	Number of rateable premises.	Valuation.		Rate at 10 per cent.			Number of premises not liable to rate and therefore not assessed.	Number of rateable premises.	Valuation.		Rate at 10 per cent.			Number of premises not liable to rate and therefore not assessed.	Number of rateable premises.	Valuation.		Rate at 10 per cent.		
			RS.	A.	RS.	A.	P.			RS.	A.	RS.	A.	P.			RS.	A.	RS.	A.	P.
1st Division	798	3,485	3,08,482	0	30,848	0	0	817	3,513	3,11,619	8	31,162	11	6	841	3,525	3,09,889	0	30,987	12	6
2nd do.	664	6,862	6,59,918	8	65,991	7	1	660	6,891	6,70,334	8	67,033	15	0	639	6,931	6,67,679	8	66,767	10	0
3rd do.	802	5,425	8,54,128	8	85,188	5	11	784	5,475	8,66,102	0	86,498	11	4	744	5,544	8,52,684	8	85,268	10	10
4th do.	320	573	90,723	0	9,072	4	6	311	577	98,247	0	9,824	14	1	311	584	98,015	0	9,801	3	4
5th do.	943	4,899	5,21,122	8	52,111	12	2	1,060	4,939	5,20,509	4	52,051	11	5	1,149	4,929	5,19,316	12	51,931	0	10
6th do.	457	1,207	3,12,051	4	31,205	1	3	450	1,244	3,07,635	0	30,763	13	6	473	1,209	3,05,335	12	30,533	1	0
7th do.	1,292	6,050	4,47,951	12	44,794	8	3	1,326	6,068	4,56,397	12	45,641	2	2	1,302	6,085	4,54,948	8	45,494	4	2
8th do.	1,200	3,527	2,95,191	4	29,518	9	11	1,183	3,529	2,94,481	4	29,448	15	8	1,220	3,597	2,89,486	4	28,948	3	0
At 10 per cent.	6,476	32,028	34,89,568	12	3,48,730	1	1	6,591	32,236	35,25,826	4	3,52,425	14	8	6,679	32,404	34,97,355	4	*3,49,731	13	8
Net assessment for 1880 at 10 per cent. ...	7,113	32,079	34,60,731	8	3,46,069	8	4	7,113	32,079	34,60,731	8	3,46,069	8	4	7,113	32,079	34,60,731	8	3,46,269	8	4
Increase in 1880	637	51	...	...	...	...	...	522	...	...	...	...	...	...	434	...	...	...	...	...	...
Decrease in 1880	...	...	28,837	4	2,660	8	9	...	157	64,594	12	6,356	6	4	...	325	36,623	12	3,662	5	2

* This is less than the amount reported in 1879, by Rs. 57-15-0 owing to subsequent amendments.

APPENDIX VII.

Statement showing the extent of revision of House assessment for the year 1880, *compared with the three preceding years.*

Year.	Fresh assessments.	Increase of assessments.	Total exemptions.	Reductions other than those allowed by Committees on appeals.	Appeals admitted.	Number of sittings.	Result of Appeals.					
							Confirmed.			Reduction allowed		
							Fresh assessments.	Increase of assessments	Standing assessments	Fresh assessments.	Increase of assessments	Standing assessments
1877 ...	617	1,251	157	251	745	15	109	201	266	14	163	134
1878 ...	284	667	200	354	570	12	28	152	263	8	58	227
1879 ...	168	206	177	56	710	10	14	20	294	10	16	594
Total...	1,069	2,124	534	661	2,025	37	151	373	823	32	237	955
Average ...	356	708	178	220	675	12	50	124	274	10	79	318
1880 ...	109	337	435	94	*974	11	7	52	355	5	9	877

* The 974 appeals represent 1,305 cases admitted and heard. Of these 12 cases were against fresh assessments, 61 against increased assessments, and the remaining 1,232 against standing valuations.

APPENDIX VIII.

Graduated scale of Valuations of Houses, Buildings and Lands assessed for the year 1880.

Locality.	Not exceeding Rs. 10.	Exceeding Rs. 11 but not exceeding Rs. 20.	Exceeding Rs. 21 but not exceeding Rs. 30.	Exceeding Rs. 31 but not exceeding Rs. 40.	Exceeding Rs. 41 but not exceeding Rs. 50.	Exceeding Rs. 51 but not exceeding Rs. 60.	Exceeding Rs. 61 but not exceeding Rs. 70.	Exceeding Rs. 71 but not exceeding Rs. 80.	Exceeding Rs. 81 but not exceeding Rs. 90.	Exceeding Rs. 91 but not exceeding Rs. 100.	Exceeding Rs. 101 but not exceeding Rs. 150.	Exceeding Rs. 151 but not exceeding Rs. 200.	Exceeding Rs. 201 but not exceeding Rs. 250.	Exceeding Rs. 251 but not exceeding Rs. 300.	Exceeding Rs. 301 but not exceeding Rs. 350.	Exceeding Rs. 351 but not exceeding Rs. 400.	Exceeding Rs. 401 but not exceeding Rs. 450.	Exceeding Rs. 451 but not exceeding Rs. 500.	Exceeding Rs. 501 but not exceeding Rs. 550.	Exceeding Rs. 551 but not exceeding Rs. 600.	Exceeding Rs. 601 but not exceeding Rs. 700.	Exceeding Rs. 701 but not exceeding Rs. 800.	Exceeding Rs. 801 but not exceeding Rs. 900.	Exceeding Rs. 901 but not exceeding Rs. 1,000.	Exceeding Rs. 1,001 but not exceeding Rs. 1,500.	Exceeding Rs. 1,501 but not exceeding Rs. 2,000.	Exceeding Rs. 2,001 but not exceeding Rs. 2,500.	Exceeding Rs. 2,501 but not exceeding Rs. 3,000.	Exceeding Rs. 3,001 but not exceeding Rs. 3,500.	Exceeding Rs. 3,501 but not exceeding Rs. 4,000.	Exceeding Rs. 4,001 but not exceeding Rs. 4,500.	Exceeding Rs. 4,501 but not exceeding Rs. 5,000.	Exceeding Rs. 5,001 but not exceeding Rs. 5,500.	Exceeding Rs. 5,501 but not exceeding Rs. 6,000.	Exceeding Rs. 6,001 but not exceeding Rs. 6,500.	Exceeding Rs. 6,501 but not exceeding Rs. 7,000.	Exceeding Rs. 7,001 but not exceeding Rs. 7,500.	Exceeding Rs. 7,501 but not exceeding Rs. 8,000.	Exceeding Rs. 8,001 but not exceeding Rs. 8,500.	Exceeding Rs. 8,501 but not exceeding Rs. 9,000.	Exceeding Rs. 9,001 but not exceeding Rs. 9,500.	Exceeding Rs. 9,501 but not exceeding Rs. 10,000.	Exceeding Rs. 10,001 but not exceeding Rs. 15,000.	Exceeding Rs. 15,001 but not exceeding Rs. 20,000.	Above 20,000.	Total.
1st Division..	8	817	886	347	384	220	46	134	85	65	184	87	44	43	13	28	19	9	8	19	5	13	8	2	15	4	2	2	...	...	...	2	...	1	...	1	1	...	...	...	...	...	1	...	...	3,503
2nd do ...	2	305	674	436	886	858	328	673	586	385	992	343	188	105	15	20	18	8	10	9	2	3	4	4	4	...	1	1	...	...	1	...	...	2	...	...	...	...	...	...	...	3	1	...	6,867
3rd do ...	4	222	464	330	656	533	239	393	488	299	875	379	216	170	32	63	42	17	13	24	4	11	11	6	29	17	9	6	3	4	1	9	3	...	...	1	2	...	...	1	...	...	1	...	...	5,577
4th do ...	...	197	130	59	58	38	3	8	9	7	15	5	2	2	...	8	5	2	3	3	...	5	2	1	4	1	...	...	...	...	...	...	1	...	...	...	...	...	1	...	1	...	...	...	1	571
5th do ...	19	982	943	543	637	394	129	198	172	104	219	100	63	63	9	22	30	22	26	23	10	19	17	10	35	11	6	4	1	2	2	...	...	...	...	...	2	...	...	...	...	...	1	1	1	4,820
6th do ...	10	433	253	95	91	53	5	19	20	15	44	18	10	9	1	3	6	5	6	6	3	19	11	11	49	30	17	6	1	2	1	...	1	...	...	...	...	...	...	...	...	...	1	...	...	1,254
7th do ...	46	1,454	1,367	667	783	483	179	281	181	92	259	66	39	32	6	12	14	4	3	7	3	5	8	1	12	6	4	1	...	3	1	2	...	..	...	...	2	...	...	1	...	1	2	...	1	6,028
8th do ...	16	902	816	392	415	247	61	74	75	55	129	65	42	32	5	15	8	8	6	16	6	10	5	5	26	15	9	3	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3,459
Total...	105	5,312	5,533	2,869	3,910	2,826	990	1,780	1,616	1,022	2,717	1,063	604	456	81	171	142	75	75	107	33	85	66	40	174	84	48	23	6	11	6	13	5	3	...	2	7	...	1	2	1	1	9	2	3	32,079

APPENDIX IX.

Abstract of Demand, Remission, Collection, and Balance on account of House Tax, for the year 1880.

	1st Division.	2nd Division.	3rd Division.	4th Division.	5th Division.	6th Division.	7th Division.	8th Division.	Total.
	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
DEMAND.									
Of arrears of and anterior to 1879 ...	4,471 8 11	3,846 10 1	6,158 3 10	626 8 4	5,032 12 2	1,892 8 10	3,569 1 4	3,433 4 11	29,030 10 5
Less reduction allowed against the demand of 1879 by reason of subsequent amendment of Register ...	... ...	... ...	247 0 8	... ...	... ...	... ...	26 6 6	... ...	273 7 2
	4,471 8 11	3,846 10 1	5,911 3 2	626 8 4	5,032 12 2	1,892 8 10	3,542 10 10	3,433 4 11	28,757 3 3
Plus Increase made to the Demand of 1879 by reason of subsequent amendment of Regr ..	... ...	... ...	169 2 10	... ...	... ...	52 10 10	... ...	... ...	221 13 8
	4,471 8 11	3,846 10 1	6,080 6 0	626 8 4	5,032 12 2	1,945 3 8	3,542 10 10	3,433 4 11	28,979 0 11
Of 1880 ...	30,607 7 2	66,774 8 6	83,478 1 2	9,704 4 2	51,582 3 10	30,587 11 2	44,888 4 0	28,447 0 4	3,46,069 8 4
Total...	35,079 0 1	70,621 2 7	89,558 7 2	10,330 12 6	56,615 0 0	32,532 14 10	48,430 14 10	31,880 5 3	3,75,048 9 3
REMISSION ALLOWED AS AGAINST DEMAND.									
Against arrears of and anterior to 1879 ...	277 4 7	288 14 3	460 9 4	282 4 10	913 14 1	248 15 4	1,098 4 8	875 8 7	4,445 11 8
Do. demand of 1880 ...	420 6 6	226 13 6	730 9 4	65 7 1	411 8 8	1,054 5 0	287 5 7	848 15 1	4.045 6 9
Total...	697 11 1	515 11 9	1,191 2 8	347 11 11	1,325 6 9	1,303 4 4	1,385 10 3	1,724 7 8	8,491 2 5
REMISSION MADE BY WAY OF REFUND FROM COLLECTION.									
In respect of arrears of and anterior to 1879...	109 10 8	134 15 10	717 2 8	3 2 5	220 9 1	589 3 3	116 9 6	571 5 7	2,462 11 0
Do. 1880 ...	71 4 4	123 14 9	479 14 9	24 0 0	264 7 8	335 4 1	48 12 8	440 2 3	1,787 12 6
Total...	180 15 0	258 14 7	1,197 1 5	27 2 5	485 0 9	924 7 4	165 6 2	1,011 7 10	4,250 7 6
NET COLLECTION.									
On account of arrears of and anterior to 1879	3,982 13 10	3,222 7 6	4,491 7 3	242 15 0	3,431 2 4	948 14 7	1,926 8 9	1,687 4 1	19,933 9 4
Do. demand of 1880 ...	29,786 12 4	65,747 5 6	80,439 5 11	9,535 0 5	49,685 0 0	28,850 2 3	44,015 14 6	25,713 1 1	3,33,772 10 0
Total...	33,769 10 2	68,969 13 0	84,930 13 2	9,777 15 5	53,116 2 4	29,799 0 10	45,942 7 3	27,400 5 2	3,53,706 3 4
BALANCE.									
In respect of arrears of and anterior to 1879...	101 11 10	200 4 6	411 2 9	98 2 1	467 2 8	158 2 6	401 3 11	299 2 8	2,137 0 11
Do. demand of 1880 ...	329 0 0	676 6 9	1,828 3 2	79 12 8	1,221 3 6	347 15 10	536 3 3	1,444 13 11	6,463 11 1
Total...	430 11 10	876 11 3	2,239 5 11	177 14 9	1,688 6 2	506 2 4	937 7 2	1,744 0 7	8,600 12 0

APPENDIX X.

Statement showing the Demand, Remission, Collection and Balance of House Tax for the year 1880, *as compared with the three preceding years.*

	Demand.			Remission.			Collection.			Balance.		
	RS.	A.	P.	RS.	A.	P.	RS.	A.	P.	RS.	A.	P.
For the year 1877...	3,48,730	0	0	2,177	0	0	3,09,070	0	0	37,483	0	0
Do. 1878...	3,52,426	0	0	3,755	0	0	3,31,889	0	0	16,782	0	0
Do. 1879...	3,49,732	0	0	3,510	0	0	3,24,869	0	0	21,353	0	0
Total...	10,50,888	0	0	9,442	0	0	9,65,828	0	0	75,618	0	0
Average ...	3,50,296	0	0	3,147	0	0	3,21,943	0	0	25,206	0	0
1880...	3,46,070	0	0	5,833	0	0	3,33,773	0	0	6,464	0	0
Increase ...	...	...	...	2,686	0	0	11,830	0	0	.....	...	...
Decrease ...	4,226	0	0	.....	...	...	.....	...	...	18,742	0	0

APPENDIX XI.

Statement of Demand, Remission, Collection, and Balance of Payment for Occupation of Municipal Lands for 1880.

Particulars.	Arrears of and anterior to 1879.			1st Quarter 1880.			2nd Quarter 1880.			3rd Quarter 1880.			4th Quarter 1880.			Total.		
	RS.	A.	P.	RS.	A.	P.	RS.	A.	P.	RS.	A.	P.	RS.	A.	P.	RS.	A.	P.
Demand	3,512	15	11	2,299	10	5	2,291	11	11	2,651	13	11	2,987	7	9	13,743	11	11
Remission	2,626	7	7	106	9	9	...	...	...	...	...	...	...	...	...	2,738	1	4
	886	8	4	2,193	0	8	2,291	11	11	2,651	13	11	2,987	7	9	11,010	10	7
Collection	872	8	10	2,155	5	2	2,190	8	2	2,496	15	9	2,045	10	10	9,761	0	9
Balance	13	15	6	37	11	6	101	3	9	154	14	2	941	12	11	1,249	9	10

APPENDIX XII.

Abstract of Demand, Remission, Collection and Balance on account of Water Tax, for the year 1880.

	1st Division.	2nd Division.	3rd Division.	4th Division.	5th Division.	6th Division.	7th Division.	8th Division.	Total.
	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
DEMAND.									
Of arrears of 1879 ...	1,653 0 11	1,079 15 7	2,293 7 1	69 9 5	1,386 0 2	949 0 11	833 2 9	846 9 0	9,110 13 10
Less Reduction allowed against the demand of 1879 by reason of subsequent amendment of Register ...	... ...	... ...	166 0 2	... ...	... ...	... ...	10 8 10	... ...	176 9 0
	1,653 0 11	1,079 15 7	2,127 6 11	69 9 5	1,386 0 2	949 0 11	822 9 11	846 9 0	8,934 4 10
Plus Increase made to the demand of 1879 by reason of subsequent amendment of Register.	... ...	... ...	120 0 8	... ...	... ...	7 3 0	... ...	... ...	127 3 8
	1,653 0 11	1,079 15 7	2,247 7 7	69 9 5	1,386 0 2	956 3 11	822 9 11	846 9 0	9,061 8 6
Of 1880 ...	120 0 0	26,460 0 4	33,215 3 4	1,763 1 10	19,879 3 2	1,798 11 0	16,845 9 0	1,484 10 8	1,01,566 7 4
Total...	1,773 0 11	27,539 15 11	35,462 10 11	1,832 11 3	21,265 3 4	2,754 14 11	17,668 2 11	2,331 3 8	1,10,627 15 10
REMISSION ALLOWED AS AGAINST DEMAND.									
Against arrears of 1879 ...	33 3 0	53 7 9	92 2 0	9 6 11	86 12 10	23 2 4	101 7 1	88 4 4	487 14 3
Do. demand of 1880 ...	... ...	90 5 8	292 1 3	... ...	164 0 9	38 2 7	112 9 4	... ...	697 3 7
Total...	33 3 0	143 13 5	384 3 3	9 6 11	250 13 7	61 4 11	214 0 5	88 4 4	1,185 1 10
REMISSION MADE BY WAY OF REFUND FROM COLLECTION.									
In respect of arrears of 1879 ...	43 13 6	41 10 2	267 0 6	1 4 2	85 9 9	199 7 3	33 12 5	220 1 6	892 11 3
Do. of 1880 ...	... ...	49 4 5	191 10 5	... ...	105 9 10	1 3 2	23 3 1	... ...	370 14 11
Total...	43 13 6	90 14 7	458 10 11	1 4 2	191 3 7	200 10 5	56 15 6	220 1 6	1,263 10 2
NET COLLECTION.									
On account of arrears of 1879 ...	1,539 2 8	954 4 0	1,748 5 8	56 3 0	1,107 14 11	616 1 5	597 6 10	478 2 1	7,097 13 7
Do. demand of 1880 ...	... ...	25,995 14 11	31,976 6 2	149 11 4	18,614 12 9	905 15 5	16,496 1 6	8 5 0	94,147 3 1
Total...	1,539 2 8	26,950 2 11	33,724 11 10	206 3 4	19,722 11 8	1,522 0 10	17,093 8 4	486 7 1	1,01,245 0 8
BALANCE.									
In respect of arrears of 1879 ...	36 13 9	30 9 8	139 15 5	2 6 4	105 10 8	117 8 11	89 15 7	60 1 1	583 1 5
Do. demand of 1880 ...	120 0 0	324 7 4	755 1 6	1,613 6 6	994 11 10	853 5 10	213 11 1	1,476 5 8	6,351 1 9
Total..	156 13 9	355 1 0	895 0 11	1,615 12 10	1,100 6 6	970 14 9	303 10 8	1,536 6 9	6,934 3 2

APPENDIX XIII.

Abstract of Demand, Remission, Collection and Balance on account of Lighting Tax, for the year 1880.

	1st Division.	2nd Division.	3rd Division.	4th Division.	5th Division.	6th Division.	7th Division.	8th Division.	Total.
DEMAND.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.	RS. A. P.
Of arrears of 1879 ...	480 7 7	344 8 6	716 7 4	21 13 9	423 13 10	175 1 9	261 13 3	230 3 0	2,654 5 0
Less reduction allowed against the demand of 1879 by reason of subsequent amendment of Register ...	... ...	... ...	51 14 0	... ...	... ...	... ...	3 4 10	... ...	55 2 10
	480 7 7	344 8 6	664 9 4	21 13 9	423 13 10	175 1 9	258 8 5	230 3 0	2,599 2 2
Plus increase made to the demand of 1879 by reason of subsequent amendment of Regr...	... ...	... ...	37 8 10	... ...	... ...	2 4 2	.. ..	... ...	39 13 0
	480 7 7	344 8 6	702 2 2	21 13 9	423 13 10	177 5 11	258 8 5	230 3 0	2,638 15 2
Of 1880 ...	3,634 14 10	8,271 1 6	10,581 6 8	1,170 14 2	6,213 7 2	3,727 14 4	5,266 3 2	3,346 3 8	42,212 1 6
Total...	4,115 6 5	8,615 10 0	11,283 8 10	1,192 11 11	6,637 5 0	3,905 4 3	5,524 11 7	3,576 6 8	44,851 0 8
REMISSION ALLOWED AS AGAINST DEMAND.									
Against arrears of 1879 ...	10 6 1	18 3 9	28 14 0	2 15 0	27 7 2	9 12 1	32 1 6	28 2 7	157 14 2
Do. demand of 1880 ...	52 3 2	28 3 4	91 3 10	7 3 0	51 3 11	131 12 7	35 2 1	105 6 8	502 6 7
Total...	62 9 3	46 7 1	120 1 10	10 2 0	78 11 1	141 8 8	67 3 7	133 9 3	660 4 9
REMISSION MADE BY WAY OF REFUND FROM COLLECTION.									
In respect of arrears of 1879 ...	12 12 2	12 5 3	84 7 8	0 6 3	23 15 2	62 5 4	13 10 11	67 8 3	277 7 0
Do. of 1880 ...	9 0 3	15 5 8	59 12 3	3 0 0	33 0 1	41 8 2	7 5 6	54 15 11	223 15 10
Total...	21 12 5	27 10 11	144 3 11	3 6 3	56 15 3	103 13 6	21 0 5	122 8 2	501 6 10
NET COLLECTION.									
On account of arrears of 1879 ...	445 14 2	303 11 8	543 15 11	17 2 11	340 12 2	99 4 7	184 7 7	119 14 11	2,055 3 11
Do. of demand of 1880 ...	3,527 5 1	8,131 6 4	9,997 0 0	1,152 0 7	5,971 1 10	3,499 8 1	5,157 7 1	3,013 0 4	40,448 13 4
Total...	3,973 3 3	8,435 2 0	10,540 15 11	1,169 3 6	6,311 14 0	3,598 12 8	5,341 14 8	3,132 15 3	42,504 1 3
BALANCE.									
In respect of arrears of 1879 ...	11 7 2	10 3 10	44 12 7	1 5 7	31 11 4	5 15 11	28 4 5	14 9 3	148 6 1
Do. of demand of 1880 ...	46 6 4	96 2 2	433 6 7	8 10 7	158 1 4	55 1 6	66 4 6	172 12 9	1,036 13 9
Total...	57 13 6	106 6 0	478 3 2	10 0 2	189 12 8	61 1 5	94 8 11	187 6 0	1,185 3 10

APPENDIX XIV.

REPORT.

We, the Committee appointed by the Commissioners at a General Meeting on the 7th July 1880 to enquire into the working of the House and Land Rates Department of the Municipal Office, have the honor to report as follows :—

2. We have carefully inspected and examined the various books and accounts which are kept in connection with the House, Water and Lighting Taxes, and the Ground Rents or Payment for the Occupation of Municipal Lands, and a list of them will be found appended to this Report. We find them to be comprehensive and complete, and we are unable to point out how the book-keeping, which is undoubtedly extensive and laborious, can be materially reduced, consistently with proper and efficient checks on the various subordinate officers concerned in the assessment and collection of the taxes.

3. We consider that the separate Distraint Register for the Ground Rent collection may be dispensed with, the needful information being recorded in additional columns added to the Register of collection of Ground Rent. This was the course adopted prior to 1878, and the statistical information obtained from a separate book is not worth the additional labour involved.

4. We have examined the method of checking the bills in the hands of the bill-collectors or conicopillays and to be accounted for by them, and find that the check is sufficient, provided the rules on the subject are carried out. The rules, however, are likely to be neglected if the office establishment is diverted from its proper duties to other objects. The work of preparing lists of elections, &c., and of conducting the elections of Commissioners, for instance, has been thrown upon the House Tax Department, with the result that the periodical examination of the conicopillays, and the check of unsettled bills in their hands was almost entirely neglected during a portion of last year. For the additional work of elections additional assistance should be temporarily engaged. We are of opinion that the practice of reducing establishments to the utmost and then overtaxing their strength is false economy, and cannot be attended with advantage to the Municipality.

5. During the recent Magisterial enquiry into the charge of criminal breach of trust against Tiruvengada Mudali, it was noticed that when warrants are returned to the office as paid before execution, they are not promptly checked by comparison with the Cash Registers. This delay is owing to the scantiness of the Office establishment, and it will be necessary in order to obviate such delay in future to employ an additional clerk.

6. We are further of opinion that the method of collecting the House, Water and Lighting Taxes is capable of improvement in the following particulars. There is at present great uncertainty as to the time when any house-holder may be called upon to pay his tax. He may practically be called upon to pay it at any time during or after the six months for which the Tax is due. In many cases the poorer house-holders may find it difficult to keep the amount of the tax by them for so long a period, and it is desirable that they should have intimation of a period within which the tax would in all probability be demanded.

7. The new registers for the House, Water and Lighting Taxes are not completed till the beginning of the year, and the amount of the tax cannot be entered against each house until the sanction of Government is received for the levy of the tax. This sanction was not received in the present year until the 21st January. After the tax has been calculated and entered against each of the 33,000 taxable houses in Madras, the notices and bills have to be prepared, and this takes further time. The issue of notices and bills to the bill-collectors or conicopillays is thus postponed.

8. The Town of Madras is divided for tax-collecting purposes into 27 divisions, each in charge of a separate Conicopillay. The notices and bills when finally complete are issued in a fixed order, street by street, to the 27 Conicopillays, who serve the notices with similar regularity but collect the bills in any order they think proper.

9. We are of opinion that the Executive Officers should arrange to issue the notices and bills to the different conicopillays for distribution on fixed dates, so far as this can be done, in order that every house-holder may be called upon for his tax at the same date or nearly so every half-year. Of this date due notice might be given by public advertisement and by beat of tom-tom. We do not desire to lay down a rigid routine against which unforeseen obstacles may arise, and would therefore leave the actual details of this method to be worked out in practice by the Vice-President under the President's orders.

10. We are aware that the present system of half-yearly instead of yearly collections has not yet been in working for two years, and we consider that reasonable time should be allowed for introducing necessary improvements into the existing machinery.

11. Much of the Superintendent's time is taken up in initialling the bills and counterfoils prior to issue, and he thus has to affix his initials to bills and counterfoils 198,000 times each half-year. The initials are affixed as guarantee that he has seen the bill and as a precaution against forgery. We consider it will be sufficient if the Superintendent initials one counterfoil on each page and then affixes his stamp on the Bills. This will reduce his scriptory labour by five-sixths.

12. We strongly recommend that the present system by which the bill-collector or conicopillay makes repeated calls upon individual house-holders for the payment of the tax, should be discontinued. We are of opinion that every house-holder should be allowed one and only one opportunity of paying his tax to the bill-collector, namely, on presentation of notice or bill, and if the tax is not paid then and there, the bill collector should return the bill to the Office where the house-holder would then be required to pay in his tax. If the tax be not paid at the Office within the prescribed time, namely, fifteen days from service of the notice or bill, the notice of demand should be issued in the form laid down in the Act, requiring the house-holder to pay the tax at the Office within seven days on pain of issue of a warrant of distraint.

13. We consider that the number of bills issued to each bill-collector should be restricted so as to prevent any large accumulation of bills in his hands. At present the bills are issued in batches of 300 at a time, and the payments made into the office by the bill-collector on bills which he has collected, form the only check upon the accumulation of bills in his hands. Under the system recommended above (paras. 9 and 12) no such accumulation would be possible, and the opportunities for fraud would be largely diminished. Each bill-collector under the system now proposed would return to the office all uncollected bills before another batch of fresh bills was issued to him. There would be a few trifling exceptions in the case of those bills for which, owing to the house being closed or for some similar reason, no notice could up to that time be served.

14. We cannot recommend that additional security should be demanded from the bill-collectors. These men receive only Rs 20 per month and provide security in Government paper to the amount of Rs 1,000 each. We consider that men in their position cannot be expected to furnish higher security than this. We would further observe that if the foregoing recommendations are approved by the Commissioners, the responsibility thrown upon each bill-collector will be greatly diminished and no additional security will be required.

15. With a change of routine that will involve a large increase in the number of payments made at the Municipal Office, we consider it of great importance that proper facilities for such payments be provided. The office accommodation is so cramped and confined that no tax-payer can at present pay his tax and obtain his receipted bill in one place, nor can he do so without instruction and assistance from the employés as to where to go. The House Tax Department is on the ground floor in a separate building at the back of the office premises, while the cash-keeper's department is at the back of the first floor of the main building. The tax-payers must first find their way to the House Tax Department, and, after their showing their notices and having their bills checked, must be shown their

way up the stairs to the cash-keeper's room, and finally find their way back to the ground floor to obtain the formal receipt.

16. All transactions connected with the payment of a Tax should, if possible, take place on the same floor. To allow this to be done we recommend that additional rooms be raised upon the buildings now used by the House Tax Department and by the Assistant Engineer, North Range. The whole of the ground floor throughout the premises would then be assigned to the Revenue Department, while one of the new upstair rooms would be occupied by the Revenue Vice-President and his correspondence clerks. All payments could then be made on the ground floor, and the Vice-President would be in a better position for communicating with and controlling his subordinates.

17. As the second half year of 1880 is well advanced and the office arrangements will take time to complete, the changes of routine we now recommend should be introduced with the year 1881.

18. Since the preparation of the foregoing report we have had the advantage of perusing the order of Government (No. 1792, dated 15th September 1880) on the defalcation in the House Tax collections. With regard to para. 2 of the order, we find that the receipted bills for demands which have been met by direct payment into the Office are withdrawn from the conicopillays at the next fortnightly examination of the concicopillays. In exceptional cases the withdrawal is postponed for another fortnight to allow the delivery of the bill to the payer. Adverting to paras. 4 and 5 of the order, we note that the practice in the Office is to issue a single notice in the first instance specifying the different taxes and the total sum to be paid half-yearly. The period allowed for payment and the consequences of default are also specified on this notice. As however the taxes can be paid separately, a separate receipted bill is necessary for each. As the Municipal Act stands at present no notice is legally served through the post unless it be registered, and the cost of serving notices through the post would thus be excessive.

19. The opening of subordinate offices for the receipt of payment would involve a costly increase of expenditure. It would be necessary to keep separate sets of books at each subordinate office and eventually to transfer the entries to the complete books kept at the Central Office. Additional officers would be required to make and to check the entries and collections at the subordinate offices, and to convey the cash-collections to the Central Office or to the Bank. All the receipted bills of the divisions embraced by each subordinate office would have to be entrusted to the clerk in charge of that office, who being in a position of such great responsibility would have to give heavy security and receive a high salary.

J. H. SPRING BRANSON.
C. V. SUNDARUM SASTRI.
H. M. A. BADSHA SAIB.
J. G. FERRAND.
A. T. ARUNDEL.
J. H. TAYLOR.

MADRAS, MUNICIPAL OFFICE,
19*th October* 1880.

APPENDIX XIV.

List of Printed Forms in use in the Revenue Department in connection with House Tax, &c.

Form No.	DESCRIPTION.
1	Inspectors' Guide as to Valuation of Houses, &c.
2	Inspectors' Report of Annual Survey of Houses.
3	Notice calling upon tenants for information as to rent.
4	Notice of increased or fresh Valuation of Houses, &c.
5	Register of Assessment of Houses in 27 books.
5 A.	House Tax calculator at 5 per cent.
5 B.	Water Tax calculator at 2 per cent.
5 C.	Lighting Tax calculator at § per cent.
6	Register of Letters, &c., received.
7	Register of Appeals.
12	Register of contingent and other charges passed for payment.
14	Check Register of House, &c., Taxes in 27 books.
15	Conicopillay's acknowledgment of Bills issued for collection.
20	Conicopillay's Hand Book of Bills issued for collection.
20 A.	Currency Note Register.
21	Particulars of Conicopillay's collection paid in.
22	Cash Register.
23	Abstract of Daily Collections.
24	House Tax Account Current.
25	Water Tax Account Current.
26	Lighting Tax Account Current.
28	Register of Notice of Vacancy.
29	Remission Register No. I. for Vacancy.
30	Remission Register No. II. for other causes.
31	Abstract of Remission for No. I.
32	Abstract of Remission for No. II.
33	Advice of Remission.
34	Distraint Register.
35	Fees Collection Book.
40	Sale Book.
42	Sale Account.
43	Register of Distrained Property.
44	Distraining Inspector's Diary.
45	Gate Pass.
46	Register of Demand of Payment for Occupation of Lands.
46 A.	Remission Book for Payment of Occupation of Lands.
46 B.	Streetwarri do. do.
50	Conicopillay's Hand Book for do.
51	Daily Collection Book for do.
52	Particulars of Conicopillay's Collection of Payment.
53	Abstract of Collection of do.
54	Distraint Register for do. to be dispensed with.
56	House Tax Cash Book.
57	Water Tax Cash Book.
58	Lighting Tax Cash Book.
59	Cash Book for Payment of Occupation of Land.
60	Fees Book.
64	Conicopillay's Examination Book.
66	Deposit Book.

Proceedings of the Commissioners thereon, dated 21*st December* 1880.

Proposed by Mr. Y. Venkataramiah and seconded by Dr. Moideen Shariff Khan Bahadur:—

That the proposals of the House Tax Committee be adopted with the proviso that a week's notice shall be given to each householder beforehand of the day when the Conicopillay will call to receive payment.

To which as an amendment it was proposed by Mr. E. Teruvengada Mudaliar and seconded by Mr. V. Ganesha Rao:—

That the consideration of the Sub-Committee's report be deferred until the funds of the Municipality are in a position to meet its most pressing and legitimate wants, and until orders of Government are passed on some radical changes in the constitution of the Municipality which are now before Government.

The amendment being put to the Meeting was lost by 11 *Con.* to 2 *Pro.*

The original proposition was then put to the Meeting and carried by 12 *Pro.* to 2 *Con.*

APPENDIX XV.

Vehicles on springs and Animals licensed for the year 1880.

	4-wheeled carriages drawn by 2 horses.	Amount.		4-wheeled carriages drawn by 1 horse.	Amount.		2-wheeled carriages.	Amount.		Horses over 13 hands.	Amount.		Horses under 13 hands.	Amount.		Horses under 11 hands.	Amount.		Bullocks or Bulls.	Amount.		Male Buffaloes	Amount.		Asses.	Amount.		Dogs.	Amount.		Total Amount.	
		RS.	A.		RS.	A.		RS.	A.		RS.	A.		RS.	A.		RS.	A.		RS.	A.		RS.	A.		RS.	A.		RS.	A.	RS.	A.
For First half of 1880 ...	188	1,880	0	1,369	6,845	0	1,134	3,402	0	1,375	6,875	0	1,095	1,642	8	266	133	0	2,734	1,367	0	19	9	8	96	24	0	2,146	1,073	0	23,251	0
For Second half of 1880.	166	1,660	0	1,334	6,670	0	1,150	3,450	0	1,279	6,395	0	992	1,488	0	299	149	8	2,952	1,476	0	31	15	8	91	22	12	2,194	1,097	0	22,423	12
Total ..	354	3,540	0	2,703	13,515	0	2,284	6,852	0	2,654	13,270	0	2,087	3,130	8	565	282	8	5,686	2,843	0	50	25	0	187	46	12	4,340	2,170	0	45,674	12

APPENDIX XVI.

Statement of Vehicles on Springs and Animals registered for the year 1880, *compared with* 1877, 1878 *and* 1879.

	4-wheeled carriages drawn by 2 horses.	4-wheeled carriages drawn by 1 horse.	2-wheeled carriages.	Horses over 13 hands.	Horses under 13 hands.	Horses under 11 hands.	Bullocks or Bulls.	Male Buffaloes.	Asses.	Dogs.
For 1877-78	411	2,804	2,133	2,842	2,171	407	5,273	17	94	1,092
For 9 months ending 31st December 1878 ..	170	1,330	999	1,259	975	208	2,347	6	37	506
For 1879	377	2,652	2,147	2,565	2,048	440	4,670	17	72	1,065
Total...	958	6,786	5,279	6,666	5,194	1,055	12,290	40	203	2,663
Average...	348	2,468	1,910	2,424	1,839	384	4,651	15	74	968
For 1880	354	2,703	2,284	2,654	2,087	565	5,686	50	187	4,340
More...	6	235	374	230	198	181	1,035	35	113	3,372

APPENDIX XVII.

Carriages and Animals compounded for during 1880, *compared with* 1877, 1878 *and* 1879.

	4-wheeled carriages drawn by 2 horses.	4-wheeled carriages drawn by 1 horse.	2-wheeled carriages.	Horses over 13 hands.	Horses under 13 hands.	Horses under 11 hands.	Bulls or Bullocks.	Buffaloes.	Asses.	Dogs.
For 1877	15	23	80	38	54	8	42	...	...	6
„ 1878	1	15	54	6	37	5	22	...	...	1
„ 1879	13	38	116	47	76	17	55	...	...	...
Total...	29	76	250	91	167	30	119	...	...	7
Average...	10	25	83	30	56	10	40	...	...	2
For 1880 ...	9	52	128	48	100	16	54	...	...	1
More...	...	27	45	18	44	6	14	...	...	...
Less...	1	...	...	...	...	...	...	...	...	1

APPENDIX XVIII.

Classified abstract of Places used for the sale of Liquor assessed for 1880.

Locality.	Beer, Wines & Spirits Shops. Assessed in Class.					Puttai Arrack Shops. Assessed in Class.					Colombo Arrack Shops. Assessed in Class.					Toddy Shops. Assessed in Class.					Total. Class.					Amount assessed.	Population.	Rates of Population to each shop.
	I.	II.	III.	IV.	Total.	I.	II.	III.	IV.	Total.	I.	II.	III.	IV.	Total.	I.	II.	III.	IV.	Total.	I.	II.	III.	IV.	Total.	Rs.		
1st Divn.	...	4	...	...	4	...	...	3	5	8	1	1	1	...	3	...	...	21	51	72	1	5	25	56	87	1,622	65,547	753
2nd do.	...	13	...	...	13	1	1	4	...	6	4	6	1	...	11	...	19	...	...	19	5	39	5	...	49	2,450	75,326	1,537
3rd do.	3	38	...	...	41	1	1	1	2	5	1	6	4	2	13	...	27	...	...	27	5	72	5	4	86	4,148	50,957	593
4th do.	...	...	...	...	...	...	...	1	1	2	..	...	1	...	1	..	...	1	12	13	..	...	3	13	16	231	9,791	612
5th do.	...	12	...	...	12	...	...	3	8	11	...	4	5	2	11	...	2	21	28	51	...	18	29	38	85	2,061	65,491	770
6th do.	...	9	...	...	9	...	...	1	1	2	...	...	...	...	...	...	1	2	7	10	...	10	3	8	21	671	19,390	923
7th do.	1	9	...	...	10	...	...	1	10	11	...	2	7	1	10	...	5	11	30	46	1	16	19	41	77	1,842	69,568	903
8th do.	..	3	...	...	3	...	...	...	8	8	...	2	...	...	2	...	...	...	52	52	...	5	...	60	65	970	41,482	638
Total ..	4	88	...	...	92	2	2	14	35	53	6	21	19	5	51	...	54	56	180	290	12	165	89	220	486	14,015	3,97,552	6,729

APPENDIX XIX.

Statement af Places used for the sale of Liquor assessed for 1880, *compared with* 1877, 1878 *and* 1879.

Period.	Beer, &c., Shops.	Puttai Arrack Shops.	Colombo Arrack Shops.	Toddy Shops.	Total.
1877 ...	99	53	48	298	498
1878 ...	107	54	52	297	510
1879 ...	106	53	49	302	510
Total...	312	160	149	897	1,518
Average...	104	53	49	299	506
1880 ...	92	53	51	290	486

APPENDIX IV.

PUBLIC WORKS AND CONSERVANCY DEPARTMENT.

MUNICIPAL OFFICE,
PUBLIC WORKS AND CONSERVANCY DEPARTMENT,
MADRAS, 11*th May* 1881.

From

J. A. JONES, ESQ.,
Vice President, Municipal Commission.

To

A. T. ARUNDEL, ESQ.,
Acting President, Municipal Commission.

SIR,

The following report of the administration of this Department for the year 1880, while it will not impress you with the idea that any great advances have been made in sanitation, or that extensive improvements have been effected in regard to our public works, will, it is hoped, shew that, affected as the Department has been by the financial difficulties of the year, much has been done which will benefit the inhabitants of certain localities in particular if not the inhabitants at large.

A large amount of additional work was thrown on this Department in connection with the Census operations. I am glad to say we have been able to obtain much information not before available to the department and which will be of much assistance to us in future schemes and investigations.

The following is a detailed account of the operations of the department during the year.

PUBLIC WORKS.

NEW WORKS.

BUILDINGS.

The amount finally allotted as per regular estimate was Rs. 2,755. The works executed were

LATRINES.

A latrine for 17 men and 17 women near the Civil Jail. This is on the water principle. The troughs are emptied twice a day when the contents are discharged into the Main Drain. Fig. 1 shews a part plan and Fig. 2 a section of this latrine. The Sanitary Commissioner has approved of the design.

2. A latrine was erected near Vepery Market. A plan and section of this are given in Figs. 3 and 4. This latrine is on the dry earth principle with separate receptacles for urine. These have also been found satisfactory, and I hope, in time, to transform all the latrines to this pattern, and thus do away with all the latrines which, at present, are merely areas enclosed by four walls, the very construction of which cause nuisance by forcing many persons to resort to open spaces, which they would not do, were suitable and proper accommodation of this sort provided. In calling attention to this matter I am, however, only repeating my report for last year.

Dust Bins.—135 were constructed during the year at the places shewn in Table No. 2. The majority of these are cylinders on brick bases. The cylinder is constructed of galvanized corrugated iron and is 2' 6" in diameter and 2' 6" high. It is not connected with the base and is lifted off from it when the contents are being removed. They are judged to be an improvement on the brick and cement or Cuddapah stone bins, as they are not liable to be broken as these others are by carts, &c., coming in contact with them.

DRAINAGE.

I have to report with much satisfaction that considerable strides have been made in this important question. As already reported in my report for 1879 Government ordered that a portion of Black Town should be drained in accordance

PLAN

OF

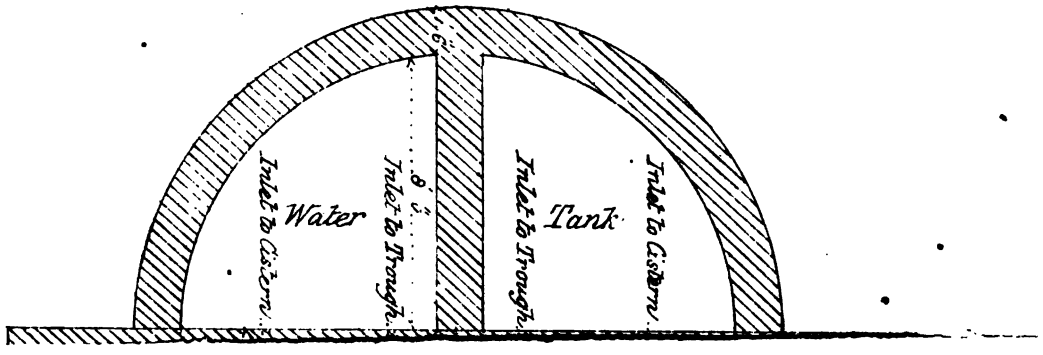
MALE AND FEMALE LATRINE

WATER SYSTEM

AT

OLD JAIL STREET

Scale 6 Feet = 1 Inch.



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with my proposals for a surface drainage scheme in order to test the merits of the scheme and to gain knowledge of the exact cost and most suitable materials.

A portion of the town covering an area of about 19 acres was selected—sixteen separate streets are included in this area. The population amounts to about 5,000 and the houses number 500.

The drains laid down were as follows:—all these being open and on the sides of the streets.

15"	drain	514	feet.
12"	do	1,085	„
9"	do	1,529	„
6"	do	6,692	„
		9,820	„

The area included some of the most filthy portions of Madras and I think, I may state without fear of contradiction, that a very great improvement has taken place in the sanitation of this portion of the town.

Large numbers of bullocks and cows are stalled together in the back yards of the houses in this area, and opportunity was taken to require the owners to pave and drain their yards. Considerable improvement has been effected in this respect, but still more remains to be done.

The old underground drains, which were of square form and roughly constructed, were found in most cases to be cesspools full of matter from these yards. All these have been taken up and filled in, and the house drain connected with the new street drains.

The new drains are flushed where water is available.

No statistics are available to shew whether the drainage has had any important effect on the health of persons residing in this area, and even were such available, it might be too soon to expect any marked result. The result can, however, only be for the better.

During the year, having been for sometime relieved of a portion of my ordinary duties, I was enabled to prepare and submit to Government complete plans for the drainage of Black Town.

The result so far has been the issue of the following remarks by the Chief Engineer, D. P. W.

"In G. O. of 27th October 1879, No. 2,698W, it was observed that arrangements would be made to place at disposal an officer of this department for investigating Mr. Jones' scheme for the drainage of Black Town, Madras. Captain Awdry, the officer selected, has reported the results of the examination in his letter, No. 1,682, of 18th September 1880, and, as the detailed report on the scheme itself has now been furnished by the President, Municipal Board, the matter is ripe for the decision of Government.

2. Owing to the inherent difficulties of the question itself involving (1) the removal of sewage over a great area where there is little or no natural fall of the ground and no immediate discharge for the same excepting into an almost tideless sea, and (2) the outlay of a sum of money which the community found it difficult, if not impossible, to provide for unaided by Government, the details of this scheme have been subjected to more prolonged professional investigation and discussion than probably any other of a similar kind in India.

3. The ultimate outcome is the scheme now sent up which confines itself, *first*, to providing for Black Town only, and, *second*, to dealing only with the sewage of this area, leaving out of consideration provision for extraordinary storm waters, thus strictly confining itself to the most essential points as regards area and material to be removed with a view to minimise to the utmost the probable outlay.

4. In doing this and availing himself of the best points of the schemes of his predecessors, especially those of Major Tulloch, R. E., and the late Mr. Clarke,

Mr. Jones has shown a wise discretion and has produced a scheme which in its general outlines, solves to all appearances the question in the best possible way. He has adopted to its full legitimate extent the system of open drains so much insisted on as essential by His Grace the Governor, and has only resorted to closed sewers where such were unavoidable.

5. The scheme would no doubt be more perfect if it included disposal of all extraordinary storm waters, but the expense of doing this cannot now be afforded. The inhabitants must make up their minds to occasional floodings, and where the basement floors of houses are now too low the owners must either raise them or be content to accept occasional discomfort. There is nothing however in the scheme to prevent storm water drains being added at any future time the community can pay for them.

6. But, however complete the proposals now put forward are as a whole, too great attention cannot be given to the points of detail upon which their success depends in an equal degree, and in view to this the following observations are submitted for the consideration of Government.

7. The house connections and disposal of the liquid portions of the house refuse are dealt with in paragraphs 21 to 24 and 61 to 64 of Mr. Jones' report, from which it will be seen that by the extremely small outlay of Rs. 2 per tenant he hopes to deal in a sufficiently satisfactory manner with this, which after all is probably by far the most important, as it is certainly the most difficult, portion of any scheme for draining a native town.

8. It is impossible to overlook or disguise the fact that there may be the most perfect system for removing all offensive matter from the point at which such is discharged into the street drains, while there may exist side by side with this complete system a state of house drains that may be little less than poisonous.

9. It is not of course proved that such is really the case in Madras, but if not (and there is nothing to the contrary in the report) the native houses and court-yards must be in a very different state from what they are in all other native towns where away from all view sewage is allowed to sink into the ground of the little back-yards and produces a rotten soil the effects of which cannot in any way be remedied by the most scrupulous cleanliness of the street drains outside.

10. If a thoroughly healthy state of things is to be produced in Madras and not merely a palliative, this fact must be looked fairly in the face.

11. The mere adjustment as proposed of an outer nozzle, costing Rs. 2 to each house drain as it now exists, will not, it may be concluded, deal in any adequate way with this matter.

12. From the nature of the case connected as it is more or less intimately with the private concerns of individuals, and not a little with caste prejudices, the question cannot be dealt with entirely as one of mere constructive devices (though of course these must be as perfect as the nature of the case admits), but must go very much further and enlist the co-operation of all concerned; it is thus a matter which, though calling apparently for early and serious attention on the part of the President and Municipal Engineer in connection with this scheme, need not be further remarked on here.

13. The next point in order of importance would seem to be the materials used in, and the form given to, the surface drains, which it is shown by paragraphs 48 to 52 will consist of brick plastered externally with Morgan's cement, and generally to be of the V form with curved surfaces.

14. For all ordinary application this matter of construction appears unobjectionable and even in this exceptional case may be found to answer well for several years, but it must be borne in mind that, notwithstanding every possible precaution, street drains have to undergo an amount of ill-usage that renders it essential to provide for materials which shall be as nearly as possible indestructible.

PUBLIC WORKS AND CONSERVANCY DEPARTMENT.

15. Mr. Jones has it is true, by giving curved surfaces and providing for cleansing with an India-rubber tool, done what he could to obviate as far as possible the effects of constant attrition of the surfaces, but these cannot suffice to meet the thousand and one sources of injury, to which street drains are exposed.

16. By paragraph 52 the edges of the drains are to consist of unplastered table brick; these, it is thought, will ere long certainly break down.

Captain Awdry in paragraph 7 very properly points to the weak point at all junctions with street drains and considers that a stone cut in the shape of the receiving drain should be introduced at such places, and he might, for equally good reasons, have added that, where house drains empty themselves into the drains, stones to receive the rush which must occur during storms, if not indeed to counteract the effect of the constant ordinary dropping, would appear to be necessary.

17. Even for these few out of many causes likely to injure the description of drain proposed, stones would have to be inserted, and as such combination would in itself, not only lead to expense, but be defective at all the junctions and edges; it would be better to consider whether thoroughly indestructible stone drains would not in the end be more economical.

18. It is not to be supposed that a mere skin of cement one-fourth of an inch in thickness can for a long series of years resist, not only the corroding action of the sewage acids, but the endless sources of injury to which town drains are subjected.

19. Inquiries have been made as to the probable cost of carrying stones (gneiss rock burnt off and dressed in being slabs) of a suitable class from Bangalore with the result that the Railway appear ready to carry the same at the rate of 5 pies per ton per mile or Rs. 5-10-0 per ton for the whole distance, which on slabs four inches in thickness would come to less than 2 annas per square foot.

20. This would admit of V drains entirely of stone being substituted, which, as will be seen from the annexure (A), should not cost more than 25 per cent., in excess of those proposed by Mr. Jones, and proportionably less if the material can be procured from a shorter distance, which seems not improbable.

21. The amount which this would add to the scheme is, as shown by annexure (B), Rs. 1,13,430 based on the abstract given on page 106 of the report.

22. At first sight this excess of over a lakh of Rupees may appear heavy, but it must be borne in mind that in any case additional stone slabs must be provided or other suitable measures taken to counteract the weak points of the drains as now designed, and that the cost of these would probably equally swell the estimate.

23. On the other hand, as may be seen any day at Bangalore, a perfectly indestructible drain would not only be secured by adopting the modification suggested, but the materials can at any future time be used over again without any loss should it ever be desirable to take up and relay any drain in a different position or with altered dimensions. These advantages, coupled with almost complete immunity from future repairs charges and the use of iron implements for cleansing instead of expensive and short-lived India-rubber ones, would, it is thought, much more than compensate for the difference.

24. But, even were it eventually decided to adhere to the cement plastered drains as proposed in the scheme sent up, it is advisable that flat instead of curved sided polygonal sections should be given as being much easier to construct. In paragraph 113 it is suggested that specially-shaped brick for forming the oval interior surface of each drain may be cheaply moulded, but a little consideration will show that, to derive every advantage from a specially moulded brick, flat surfaces are essential, to say nothing of the much greater facility with which plaster laid on such can be rendered by the workman. A very slight rounding of the invert would in all cases be desirable.

25. Captain Awdry has drawn attention to the advantages of increasing the section of the drains at the street crossings, and also to the adoption of oviform

instead of circular sections for the underground sewers to insure better discharge and lessen the deposit.

26. Mr. Thorowgood also remarks that the Harbour sewer which was designed independently of the Municipality (who declined to contribute to its construction) would be better if larger, and should no doubt be supplanted by another drain in case of the scheme being carried out. For reasons assigned also it will not answer as a storm overflow.

The price to be offered for the engines Rs. 30,000, is not again in Mr. Thorowgood's opinion sufficient.

Captain Awdry also thinks that it would be better if the delivery channel north of the town were carried a mile further than proposed.

27. All these points seem to merit consideration before the scheme is definitely accepted, but, as it has now assumed a form leaving so little to be desired both as regards general design and economy, it is to be hoped that the modifications still needed to perfect it may not practically lead to any further delay and that the means for carrying out a project that has become so indispensable to the community may be put in execution at the earliest possible moment. Ten or eleven lakhs of rupees would be a small price to pay for the undeniable advantages of a scheme of the kind, and for the removal of a long-standing reproach to a great community like Madras.

(Signed) R. H. SANKEY, Col., R. E.,

3rd November 1880. *Chief Engineer, P. W. D.*"

"ANNEXURE A.

Estimate for one Running foot No. I.

	Annas.
2·5 square feet stone slabs at 2·5 annas per square foot at Bangalore	6·25
Carriage for ditto to site of works in Madras at 2·5 annas per square foot	6·25
1 cubic foot concrete at 2 annas ...	2·0
Pointing	0·4
Earth-work	0·2
Cost per running foot	15·1

Estimate for one Running foot No. II.

	Annas.
6 square feet stone slabs at 2·5 annas at Bangalore	15·0
Carriage to site of Works, Madras	15·0
3·5 cubic feet concrete at 2 annas	7·0
Pointing	0·75
Earth-work	0·85
Cost per running foot	38·6

or say average 25 per cent. above Mr. Jones' system.

No. II.

ANNEXURE B.

Size of Drains.	Total length in running feet.	Rate as per Mr. Jones' Estimate.			Total cost.
6 Inches	303,571	0	12	6	2,37,165
9 "	69,357	1	0	0	69,356
12 "	49,314	1	3	0	58,560
15 "	19,835	1	6	0	27,275
18 "	17,759	1	12	0	32,178
21 "	4,711	2	0	0	9,422
24 "	7,255	2	4	0	16,324
30 "	887	2	12	0	2,439
Total cost of surface drains as per Mr. Jones' Estimate					4,52,719
Add 25 per cent.					1,13,430
Total if stone slabs from Bangalore are used					5,66,149"

PUBLIC WORKS AND CONSERVANCY DEPARTMENT.

"No. 104C. From Major H. M. Vibart, R. E., Superintendent of Works, Presidency, to the Chief Engineer, Public Works Department, dated Chepauk, 7th December 1880, No. 3,303.

With reference to your Office note dated 18th ultimo, I have the honor to submit a statement shewing the estimated cost according to local rates of the stone drains Nos. I and II of Cuddapah and Sholinghur stones respectively, and to point out that Cuddapah stones seem very suitable for the work, and will apparently not cost more than cement drains, which it is supposed will be about 12 annas and 2 rupees per running foot."

To these remarks I made the following reply :—

"On Captain Awdry's Letter.

Para. 4.—Objection is here taken to the position of the well at the junction of the closed pipe outfall with the open outfall channel. There was a doubt in my own mind while fixing the position of this well as to whether it would not have been better to place it a little further north. After considering that any advantageous extension would involve a greater lift at the pumping station and an increase in the length of the piping, and moreover that we have already wells of similar diameter close to crowded portions of the town without much nuisance and very little complaint, I came to the conclusion that it was not advisable on economic or sanitary grounds to make any change of position. I may here note that the Chief Engineer (para. 26 of note) seems to have misunderstood Captain Awdry's remark and that the closed outfall pipe is referred to and not the open delivery channel.

Para. 5.—Throughout my proposals the main objects which I have kept in view have been economy in design and facility of construction, and these are two of my reasons for adopting a circular cross section for the main sewer, instead of an oval one, but in addition to this it is only in sewers of large size which require to carry off at times a small and at other times a large quantity of sewage and storm water that the oval form is necessary. No storm water has to be provided for and the flow will not therefore vary to any great extent in these sewers, and as the greatest radius is 1′ 9″ I do not see that an oval section would be of much advantage. I may here draw attention to para. 24 of Colonel Sankey's note who would prefer the open surface drains to have straight sides, although the oval form in this case *is* advantageous in this case where both storm and surface water have to be carried off. The proposals of Captain Awdry and Colonel Sankey on this point appear therefore to be at variance with each other.

Para. 7.—I regret I cannot agree with Captain Awdry as to making a small portion of the receiving drain of stone at the junction of a tributary one. In storms when the greatest rush of water takes place of course the receiving drain is also full of water and there can be no blow on the drain nor any erosion, and at other times the ordinary sewage or flushy water only is coming down in small quantities, there is therefore practically no heavy discharge full against the drain; Captain Awdry has probably also forgotten that the tributary drain when of any size does not flow into the receiving drain at right angles but by a curve in the direction of the flow. His sketch therefore is an incorrect basis for a judgment on this point and on this ground and the arguments already adduced I see no reason for the change proposed.

Para. 8.—I agree with Captain Awdry on this point, but it is only by experience which has now been gained from the portion already constructed that such matters call prominently for attention.

On Mr. Thorowgood's Letter.

Re Para. 68.—I would agree with Mr. Thorowgood that the Harbour sewer and hence the proposed sewer No. 3 would be better if larger, if the same amount of sewage had to continue to pass down the Harbour sewer as does at present. This will however not be the case as the sewage from the Black Town Main Drain now pumped into and now passing down this sewer will in future pass off by the proposed Popham's Broadway sewer No. 1 and thus leave the Harbour sewer alone for the sewage which comes from the eastern slope of the town. A sewer of 24″ diameter will therefore be large enough.

PUBLIC WORKS AND CONSERVANCY DEPARTMENT.

Para. 69.—I limited the use of this portion of the Harbour sewer cut off to use on the occurrence of "smaller amounts of rainfall," and before the other outfalls come into operation and I fail to see why this sewer which now discharges sewage with its outfall 2½ feet below high waters would not equally well discharge storm waters especially if of small amount. The works proposed by Mr. Thorowgood owing to other provision seem to me unnecessary.

Re Para. 117.—The value of any article is not dependent on the cost but on the demand, and I presume that for 40 H. P. engines the demand in Madras is not great. I believe 30,000 will be found a fair sum if, for sale, these engines, &c., had to be sent to England or even Calcutta or Bombay. No doubt all these circumstances will be taken into account in making the valuation.

Para. 3.—I will reserve my comments until I touch upon this point in connection with Colonel Sankey's note.

On Chief Engineer's notes.

Para. 5. In para. 58 I have shewn, I think clearly, how impossible it is at present to attempt to provide for extraordinary rainfall and this must remain a work of time.

Paras. 7, 8, 9, 10, 11, and 12. These paras. when I read them led me at first to believe that I had in my scheme omitted all reference to house drainage except in so far as it affected the outside public, but such is not quite the case. I may refer to para. 62 in which I remark.

"62. In the ordinary house the drain is usually at a sufficient slope and "though of course *many are capable of improvement, this must be a work of time.*"

The mere adjustment of an outer nozzle at a cost of Rs. 2 to each house drain as it now exists was never intended to deal in toto with the house drains. It was merely intended to provide proper junctions and to do away with one of the most common fitting sights of Madras.

The house drainage itself is one of the most important of sanitary questions, but its improvement forms no part of my scheme as such expense under the Municipal Act falls on the owner and not on the general public, and it is only when the house drains become a public nuisance which they do at the junctions with the street drains, that I have endeavoured to improve matters.

The inspection and improvement of house drainage is urgently called for and it was my intention to request that one or two inspectors should be appointed whose sole duty it would be to report as to each house drain, and when defective, to urge their reconstruction on the owners and undertake the work ourselves at their cost when they neglected to do so. This should be done not only during the construction of a drainage scheme and I consider it one of the weak points of Municipal Administration that such appointments do not exist among the regular sanitary staff of the City of Madras.

Para. 13 and seq. I have already pointed out that the carrying out of Captain Awdry's suggestion as to constructing the drains of stone at the junction of tributary drains is unnecessary and for similar reasons, so also at the junction of house drains as when any great discharge takes place during a storm the receiving drains will have a considerable quantity of water in it, which will serve as an admirable cushion.

The form of the drain I have adopted is the one which is best adapted for carrying of varying quantities of water or sewage. If the drains are to be made with straight sides there is a reduction of sectional area. Larger drains will in all cases be necessary and an increase in the cost will result. Moreover I have every reason to be satisfied with the drains as already constructed. No difficulty was experienced in forming them to the oval section and on consideration I think that perhaps it may be better to use cut bricks as already done rather than moulded ones in order to increase the adherence of the cement. The cement appears to stand perfectly well and it must be remembered that the flow of water over it though it be sewage when the cement has once set is daily adding to its strength.

With reference to Para. 18, I do not think that chemical action on good cement need be taken into account as we have drains laid down in 1877-78 or three years ago on which no chemical action has as yet taken place.

The only case in which I fear cement might fail would be in the case of a cart wheel coming on or into the drain, but I believe that a cart wheel coming on a Cuddapah stone drain would do more damage and by fracturing a whole slab cause greater expense than in the former case. Again the construction of a perfect Cuddapah stone or other stone drain would be more difficult owing to the number of cross joints and these again must always offer more obstruction to flow than an even cement surface. There is also the chance of unobserved percolation.

I think these arguments go to prove a cement drain better than a stone one, and the one remaining argument in para. 23 as to the facility of removal and reformation may be replied by saying that once the Black Town of Madras is provided with ample drains the causes which will render their removal or alteration necessary will be few and far between.

I believe however notwithstanding all the arguments adduced against the whole drain being of stone such would not militate against its substitution for the table bricks on the top of the side of the drain next the street, to use it next the houses would be expensive as the face of the pials are very irregular and bricks can always be conveniently cut if necessary when sufficient space is not available for the full length of a brick.

The cost of 100 feet of table brick in cement (without including the plastering) on the inside face is Rs. 24.

The cost of stone 100' × 9" × 4" or 75" square feet of 4" thickness at 5 annas per square foot = Rs. 24 + Rs. 2 for pointing = Rs. 26. This would be on one side only of the drains or for 472,695 Lineal feet and adding 2 per cent. for crossing where it would be desirable on both sides say 482,000. The extra cost would be (Rs. 26 — Rs. 24 per 100 feet) = 9,640 Rs. This I am prepared to recommend if rigid economy in first construction is not desirable. By extending this paving to 18" inches in breadth with concrete underneath admirable trottoirs would be obtained throughout the town but the extra expense (Rs. 85,000) prevents such a proposal.

I did not adopt the India rubber tool for cleaning the drain solely with the idea of preventing attrition to the drain but because it affords the best means of keeping the drain in a perfectly clean condition. Iron tools for cleaning drains I consider objectionable whether the drains are of stone or cement as they cannot clean the surface in any manner approaching that in which an India rubber tool does, and such being the case (and with reference to para. 3 of Mr. Thorowgood's letter in which he says "that he has no doubt that in such case the cement would resist "all corroding action of the sewage") I think we have an additional reason for retaining cement as the material for the drains.

Paras. 25 and 26.—I have already replied to in making my remarks on Mr. Thorowgood's letter.

In conclusion I beg to thank Colonel Sankey, for the points to which he has drawn attention and to which I have given my best consideration. I have put forward further reasons for the adoption of my original proposals but (while leaving these points to the decision of Government) I trust that Colonel Sankey will continue to afford his advice and assistance during the execution and until the completion of this indispensable project.

(Signed) J. A. JONES, A.M.I.C.E.,
Vice-President, M. M. C."

The Commissioners then passed the following resolution on the 9th March this year:—

"That the Commissioners approve generally of the Drainage Scheme as drawn up by Mr. Jones, and are prepared to carry it out so soon as their financial position permits."

I trust that the outcome will be that a grant will be shortly made to enable us to go on gradually with the work.

In addition to these works noted in connection with the main scheme, new drains were laid down both sides of Ponnapah Moodelly and Thacker's Streets in the 5th Division, where no drains except ditches existed. A great improvement has been the result. The length of drains laid down in these streets was 3,890¼ feet.

The remaining expenditure on drainage has been for the preparation of the complete scheme and expenses in connection therewith.

WATER SUPPLY.

The only new works in connection with the water supply was the provision of scour-pipes, reference to which work was made at pages 150 and 151 of the report for 1879.

There is no doubt that the introduction of these scour-pipes has been of considerable advantage. The water which come from these pipes which are connected with the underside of the main pipe, on the first occasion they were opened, was invariably black as ink, and though now from continued use we have apparently got rid of the black silt which was in the pipes, the water is still of a slightly red color for a few minutes after opening, and then gets clearer.

The pipes were fixed as per the following table. Those prepared to be fixed on the 42" and 20" Mains have not yet been so. The water would require to be shut off from the town for some days, and it was thought advisable to wait, as they can be fixed the first time the water is shut off for clearing the open delivery channel.

List of Scour Pipes as fixed.

Size of Main.	Place.	Diameter of Scour Pipes.
Inches.		Inches.
36	Gengadara Easwarer Covil Road	12
30	Back of Office of Commissioner of Police	10
27	Harris' Road	9
27	Triplicane High Road junction of Wallajah Road	9
27	Hunter's Road...	8
24	Ramanen Street	8
21	Poonamallee Road junction of Law's Bridge Road	7
21	General Hospital Road	7
21	Mint Street junction of Ramanen Street	7
18	Marshall's Road	6
14	Woods' Road...	6
14	Portuguese Chapel Street junction of Odacall Street...	6
12	Govindapah Naick Street do. Ramanen Street	5
12	Barber's Bridge Road do. Edward Elliott's Road	5
12	Do. near Elephant Tank	4
7	Mint Street junction of Rasapah Chetty Street	4
7	North Beach Road near Lord Clive's Redoubt	4

MISCELLANEOUS.

Double Hydrants similar to those described on page 151 of last year's report (1879) were fixed as follows during the year :—

1 at the junction of Errabauloo Chetty and Thumboo Chetty Streets.
1 do. Thumboo Chetty & Moocur Nullamoothoo Chetty Streets.
1 do. Jaffer Serang and Murca Lubbay Streets.
1 do. Murca Lubbay and Matoo Streets.
1 do. Triplicane High Road and Evening Bazaar Roads.
1 do. do. near Nabob's Palace.
1 do. Pycroft's Road and Janay Jaun Khan Street.

PUBLIC WORKS AND CONSERVANCY DEPARTMENT.

I am glad to state that in one instance (the fire at the Firewood Depôts in Popham's Broadway) it would have been difficult to have overcome the fire without very great damage to property, had not the steam fire engine been able to get a full supply from one of these new hydrants.

EXTENSION OF WATER SUPPLY.

The question of extending the water supply had not received a final settlement at the end of the year, but in all likelihood the supply will be extended to a limited area so as to comply with the regulations of the Municipal Act. I may state that at the time I write, tenders have been called for for supplying materials in order to execute the works in 5th, 6th and 7th Divisions.

PUBLIC WORKS.

MAINTENANCE.

ROADS.

The budget grant for maintaining our public roads and streets was reduced from Rs. 1,00,000 to Rs. 90,000, not that the money could not be spent and well spent, but because more than Rs. 90,000 was not available. Moreover out of this Rs. 90,000, Rs. 4,191-7-4 were paid for arrears of former year. The grant was all appropriated, but certain works were unfinished or not commenced at the end of the year. The value of the work done in maintaining our roads during 1880 was thus only Rs. 68,124.

Tables 4 and 5 show the roads which were reformed or totally repaired, and with what amount of materials and at what cost they were so.

These tables shew that supposing all roads had been reformed with a breadth of 20 feet there would have been laid at a cost of Rs. 50,130

	Lin. ft.
Roads of 6″ thick	1,421
5″ „	1,520
4″ „	9,640
3″ „	135,026
2″ „	2,082
1″ „	.....
Total...	149,689 = 28·4 miles.

In addition to the above were executed repairs to roads, the liability of the Contractors for which had expired and which were maintained departmentally for various periods before being again reformed and maintained by Contractors. The materials used are detailed in Table No. 6 and amounted to

Labour	Rs.	5,242	5	7
Materials	„	10,616	10	11
	Rs.	15,859	0	6

New tenders were called for in the end of 1880 for reforming roads during the years 1881 to 1883. Advantage was taken of the expiry of the old contract to frame a new specification and schedules, whereby better terms have been secured for future maintenance, and whereby it is trusted that an improvement in the state of our roads will result.

I am, however, of opinion that, notwithstanding all the care which has been taken in framing the specification and schedules, our roads require more consolidation than they can ever receive from hand-tamping, and even though the first cost were large, a satisfactory increase in the life of our roads and an eventual decrease in the cost would follow the introduction of a steam roller. It would, however, be well to obtain one on trial before finally deciding to adopt the system.

Before the tenders for 1881 and the following years were received, I made considerable enquiry into the state, length and cost of the roads and amongst the facts

elicited were these. Taking a standard breadth of 20 feet our roads would be in length—

	Lineal Feet.
First Class	2,92,570
Second „	87,585
Third „	88,460
Fourth „	72,217
	540,832 = 102 miles.

while the real length with varying breadths are—

First Class	2,57,382
Second „	2,31,192
Third „	1,19,017
Fourth „	1,10,585
	718,076 = 136 miles of metalled roads.

This has been stated in previous reports and obtained from records as 176 miles and it is presumed that the metalling of several roads has been discontinued since the latter figure was obtained.

The following table shews the amount actually expended in connection with roads during the year, and the amount still remaining to be paid. The total sanction could not be worked out during the year although allotments were made owing to delay in sanctioning estimates in the early part of the year.

		RS.	A.	P.	RS.	A.	P.
1.	Amount paid for work done on Estimate of 1880 during the year...	48,588	11	5			
2.	Do. unpaid	1,541	4	8			
3.	Do. levelling sides of Roads on estimates of 1880 ...	2,065	8	0			
4.	Do. unpaid	69	11	7			
5.	Do. for materials used during the year for emergent repairs	8,499	7	2			
6.	Do. unpaid	2,117	3	9			
7.	Do. labour and sundries	4,232	6	10			
8.	Do. unpaid	1,009	14	9			
9.	Do. materials used in 1879...	...	...	...	2,469	7	3
10.	Do. labour and sundries, 1879	...	...	...	1,722	0	1
		68,124	4	2	4,191	7	4

As above the total for 1880 is Rs. 68,124-4-2, and the total of items Nos. 1 and 2 is Rs. 50,130-0-1.

The allotment required in 1881 for the unfinished works, &c., of 1880, will be Rs. 4,738-2-9.

The actual work done in reforming roads for Rs. 50,130-0-1 is as under :—

Thickness.	Number of squares of 100 square feet.	Length.		
Inches		Miles.	F.	Yards.
2	416·40	...	4	45
3	27,005·16	31	2	106
4	1,928·03	1	7	206
5	304·	...	3	153
6	284·21	...	2	65
Total.	29,937·80	34	4	135

This gives a rate per square of Rs. 1-10-9 against Rs. 2-2-5 for last year (1879) and per mile, Rs. 1,449-13-1 against Rs. 1,935-13-8.

PUBLIC WORKS AND CONSERVANCY DEPARTMENT.

BUILDINGS.

1. *Slaughter Houses.*—The Monegar Choultry Slaughter House was thoroughly repaired and whitewashed at a cost of Rs. 371-11-0, and petty repairs were done at Perambore and Chetty's Garden Slaughter Houses. These are detailed in Table No. 7. Repairs were required to Perambore Slaughter House but money was not available.

2. *General Market.*—An estimate was passed for repairs, &c., amounting to Rs. 677-12-3, and the work was in execution at the end of the year.

3. *Vepery Market.*—This is a newly acquired market and which will hereafter be alluded to. It has been for a long time out of use and when it became Municipal property it was thoroughly overhauled. Three new gates were erected. Several verandah floors of square bricks were substituted for the earth floors which were in existence when the market was acquired.

4. *Latrines, &c.*—Several repairs were executed to 45 latrines. Most of these are mere screens for which proper latrines will be substituted when money is available, one permanent latrine in Letang's Road was erected instead of an existing mat one at a cost of Rs. 352. Want of funds prevented further expenditure.

5. *Office Premises.*—Some very necessary additions were made to office premises by the addition of a coach house, &c. Several improvements were made to the Main Verandah and a low stone wall was erected to keep distrained carts, &c., to one part of the yard. A fountain was erected (included in water supply maintenance), which is of much benefit to persons frequenting the office. A general improvement in the entrance and yard in the front of the building has been the result.

6. *Toll Gates.*—Repairs amounting to Rs. 243-13-0, were executed to the Houses at the Toll Gates noted in Table 12.

7. *Stores and Workshops.*—The workshop yard was extended northwards up to Annah Pillay Street and various repairs to the roof of the Blacksmith's Shop, &c., were made during the year at a cost of Rs. 243-0-8.

8. *Municipal Public Cart Stands.*—The entrance to the Wall Tax Road Cart Stand were improved by the construction of two culverts by which the drainage from the east of the cart stand is carried more rapidly away.

9. *Dust Bins.*—Rs. 88-7-8 were expended in repairing and refixing 57 dust bins.

10. *Cart Depôts.*—The Trevelyan Cart Depôt was slightly extended by including a waste portion of Annah Pillay Street which was resort for persons committing nuisance. Several minor repairs were executed. These Cart Depôts for the reception of Municipal Bullocks are not in the state they ought to be and only from want of funds do they remain so. I am glad to report before writing this, sanction for improvements had been accorded which I hope will tend greatly to improve their condition and ensure freedom from the disease to which the Municipal Cattle have been of late liable.

DRAINAGE.

The amount sanctioned for maintenance of drains was Rs. 3,026.

Black Town Main Drain.—As the extension of the foreshore at the southern mouth of the Main Drain occasioned an intolerable nuisance at its nightly discharge, the intercepting sewer along the beach formed by the Harbour Works Department was ordered to be extended towards the southern mouth of the Main Drain. This was done, and at the beginning of the year a six H. P. Engine was set up which with a 10" centrifugal pump has been employed during the year to lift the sewage from the Main Drain into the intercepting sewer.

The drain has now to be opened only on occasion of rainfall and once a week when the engine is being cleaned.

It will, however, still be necessary to extend the drain, (whether abandoned as a sewage drain or not) towards the sea whence its mouth is now some three hundred

feet away at high water, and new doors are required to keep the sand out of the mouth. Plans for this object are now under preparation.

The raising of the sewage and the disposal of it down the new drain only increases the nuisance at the north harbour arm, where all the main drain sewage plus the sewage from the eastern slope of Black Town is now ordinarily discharged though into much deeper water than it would be at the south mouth.

The alteration, though it may be an alteration, cannot be considered a permanent improvement, and the cause of the long and loud complaint of those residents of Royapuram near the Harbour North Arm will not be abolished until the sewage is carried a very long way further north as now proposed.

The following table shews the cost of setting up the new pumping apparatus and increasing the size of the Engine House with necessary alteration to the well, &c.

Particulars.	Amount.					
	RS.	A.	P.	RS.	A.	P.
1 For removing the old Engine and Pump, and fitting up the new one at the Screw Pile Drain	...	...	...	5,931	3	1
2 „ altering the Engine House... ...	1,717	6	11			
3 To cost of materials returned to Stores and credited to No. 2	1,363	13	0			
				353	9	11
	Total Rs...			6,284	13	0

Triplicane Main Drain.—Portion of the arch of this drain had become insecure and about 140 feet of it were taken down and rebuilt; some sundry small repairs were also effected.

Street Drains.—Very little work was done in the maintenance of this description. A new drain was laid in Trevelyan Cart Depôt at a cost of Rs. 181-4-7. Petty repairs amounting to Rs. 229-7-7 were made at various parts of the town where the record might be said to end. The grant for maintenance of drainage was small to begin with. Rs. 489-3-8 were spent on the Main Drain; Rs. 224-6-10 on Triplicane Drain, and Rs. 639-11-2 on Street Drains, and the remainder of the grant was unavailable as many arrears had to be paid from it for which no other provision had been made.

WATER SUPPLY.

The rainfall at the Red Hills Lake whence our supply is drawn has been as follows during the year,—a total of 46·11 inches or 9·65 inches less than in 1879.

Month.	Inches.	Month.	Inches.	
January	1·25	July	2·54	
February	1·95	August	1·06	
March	0·00	September	6·85	
April	0·00	October	9·15	
May	0·00	November	16·28	
June	1·12	December	5·91	
	4·32	+	41·79	During the year=46·11.

On the 1st Jannary 1880 the water stood at 42·68, and on the 31st December at 43·47. The usual diagram is attached shewing the varying levels of the water in the tank during the year. The tank was very low during the early portion of the year.

Full

N° 1

N° 2

N° 3

Lowes

Botto

PUBLIC WORKS AND CONSERVANCY DEPARTMENT.

DELIVERY CHANNEL.

There is nothing particular to report in regard to the channel. Its bed is still in an uneven state, and this cannot be rectified without a very large expenditure of money, nor without shutting of the supply from Madras for some considerable periods. The sale of trees, &c., along the slopes of the channel banks realized Rs. 605.

PIPES.

The introduction of the scour pipes already alluded to has had the result of keeping our pipes more free from silt. The following leaks took place :—

That at Avadanum Paupier Road was a most singular one; a piece of iron 16 square inches in area having been forced out of the pipe. The pipe had been laid eight years, and as it was 5 feet below ground must have been imperfect when laid. A new valve was placed on this pipe near its junction with the 27" Main. A new valve was also put in on the 27" Main in Hunter's Road, where the pipe was without a valve for much too long a distance.

FOUNTAINS.

During the execution of the drainage advantage was taken of several necessary alterations to improve the Bathing Fountain at Budriah Garden Street. This fountain can be approached directly from Wall Tax Road by the removal of a stable.

Improvements were commenced at Law's Bridge Fountain, but these were not completed at the end of the year. Two new stand pipes were erected in Cabaleeswarer Covil and Chitracolum Streets, St. Thomé, by order of the Standing Committee and were charged to Maintenance.

A fountain was erected in the Municipal Office Compound which is used by the public as well as by persons coming to the Office on business.

PRIVATE SERVICE.

The number of private house services laid during 1880, viz. 241, again shews an increase of 83 above the 158 in 1879; and the following table shews the numbers laid during previous years and the total now existing in each division :—

Division.	73-74.	74-75.	75-76.	76-77.	77-78.	Nine months, 1878.	1879.	1880.	Total.
1st	...	...	...	...	...	1	...	...	1
2nd	14	36	15	9	9	29	80	105	297
3rd	7	21	9	8	6	8	33	63	155
4th	2	...	...	1	...	1	2	1	7
5th	16	12	7	11	...	6	15	27	94
6th	7	3	13	3	...	2	9	11	48
7th	12	11	1	6	1	9	18	30	88
8th	...	...	1	1	...	1	1	4	8
	58	83	46	39	16	57	158	241	698
			Famine years.						

In one or two instances the Mains were extended at the instance and cost of private individuals to enable them to have house services on their premises, and this was done on the understanding that when the extensions were sanctioned by the Commissioners and when the Mains were annexed for public service, the cost should be repaid. A notable instance of this was a Main laid by the Hon'ble P. O'Sullivan and the Hon'ble Rajah Gugapathy Row, which cost Rs. 4,117-8-9, and a portion of which Main will evidently be used by the public when the value of such portion will be returned to these gentlemen. Where Mains paid for by private parties are not a part of the scheme of extension, and where no public fountain will be placed, no return of money will be made.

PUBLIC WORKS AND CONSERVANCY DEPARTMENT.

QUANTITY AND QUALITY OF SUPPLY.

The following table shews the quantity of water drawn during each month in 1880 :—

January	9,963,000	July	14,623,000
February	7,771,000	August	16,842,000
March	10,986,000	September	19,459,000
April	12,752,000	October	23,650,000
May	15,901,000	November	10,322,000
June	13,777,000	December	7,698,000
		Total C. ft...	163,744,000

These quantities are taken from the Government Returns, but those for August, September and October appear to be open to question, the guaging weir being submerged from 22nd August to 9th November. The above quantity gives an average consumption per month of 13,645,333 c. ft., and if the population using the water be taken at 200,000 of c.ft. 2·27 or 14·2 gallons per person per day. Last year the amount calculated on the same basis was 12·5 gallons per head per day.

The following is an analysis by the Chemical Examiner of samples of water supplied to the city.

Analyses of Red Hills Water.

	1880.				1879.	
	1. From the Lake just before it enters the tower at head work.	2. Taken at the masonry shaft of the delivery channel just before it enters the pipe.	3. Taken from the open cistern opposite the High Court.	4. Taken from the lamp post fountain in St. Lazarus Chapel St.	From the Lake just before it enters the tower at head work.	Taken at the masonry shaft of the delivery channel just before it enters the pipe.
Total Solids, grammes per litre	0·25	0·22	0·21	0·19	0·230	0·170
Volatile solids „ „	0·08	0·08	0·07	0·10	0·110	0·040
Sodium Chloride „ „	0·070	0·070	0·076	0·819	0·06727	0·06435
Total hardness, Clark's Scale	6°·3	6°·3	6°·65	6°·3	3°·85	3°·5
Permanent hardness „ „	3°·5	3°·5	4°·2	4°·2	3°·5	2°·8
Free Ammonia, Millegrammes, per litre ...	0·8	0·32	0·36	0·32	0·64	0·48
Albumenoid Ammonia „ „ ...	0·7	0·64	0·4	0·16	0·40	0·64
Nitric Acid „ „ as ammonia.	4·2	4·5	4·8	3·6	0·75	0·60

Remarks.—The deposit which was abundant in Nos. 1, 2 and 3 and very abundant in No. 4, was composed chiefly of vegetable debris.

In No. 3 large infusoria were very numerous.

In No. 1 Diatorins and Amæbee were very abundant.

Table shewing the number of hours in each month during which each tank mentioned received a supply of Red Hills Water.

Division.	Place.	Names of Tanks.	January.	February.	March.	April.	May.	June.	July.	August.	September	October.	November.	December.
	Perambore ...	Tank in Left Wing Lines ...	...	11	22	6	18	...	6	54	7	46	23	...
	Cossapett ...	„ in Cundasawmy Covil ...	...	9	6	19	6	27	15	7	28	22	...	...
	People's Park ...	„ near Line Shed ...	...	60	36	5	127	...	50	9	35½	15	...	...
	Do. ...	„ „ North Gate ...	...	6	6	20	12½	31	66	19	15	10½	...	...
	Vepery ...	„ in Rundall's Road ...	...	6	12	26	36	41	...	173	10½	50½	21½	...
	Egmore ...	„ in Egmore High Road ...	...	...	...	...	49	15	...	32	...	...	...	...
	Do. ...	„ in Museum ...	11	17	5	16	6½	9	16	19	7½	24	11	..
	Do. ...	„ in Marshall's Road ...	...	...	5	5	4½	11½	..	...	...	...	8	...
	Choolay ...	„ in Avadanum Paupier Road.	...	15	3	4	...	26	13	37	15	..	26½	...
	Do. ...	„ in Parumall Covil ...	...	6	5½	33	22	32	38	20½	15½	5½	27	13½
	Triplicane ...	„ Parthasarathy Covil ...	...	...	...	...	...	...	168	744	720	744	720	744
	Do. ...	„ Nagapier Street ...	696	696	600	240	744	696	624	408	576	...	...	...
	Chintadripettah	„ Napier Park ...	...	...	336	432	576	696	...	...	...	...	...	...
	Mylapore ...	„ Big Tank ...	336	696	744	528	744	696	744	744	720	744	720	744
	Do. ...	„ Chitracolum Tank ...	...	...	168	720	744	360	312	744	480	...	...	...

PUBLIC WORKS AND CONSERVANCY DEPARTMENT.

Expenditure in Workshops, from 1st January to 31st December 1880.

Particulars.	Value works completed			Value works uncompleted.		
	RS.	A.	P.	RS.	A.	P.
Conservancy, Contingent	4,289	0	2	124	7	
Contingent, Miscellaneous	316	4	8	7	10	170
Do. Office Furniture	74	13	2	4	3	10
Conveyance of Night Soil to Manally	147	1	7	...	...	...
Completion of Drainage Scheme	119	12	3	...	...	...
Drainage New Works	24	12	6	...	...	...
Lighting additional Lamps and Sundries	5,430	6	5	2,875	7	8
Maintenance of Fire Engines	88	1	5	...	...	...
" of Road Watering	725	11	9	...	...	...
" of Workshops	292	11	1	...	...	...
" Building, Office Premises	109	3	8	...	...	...
" Main Drain	489	10	10	66	1	0
" Sewage Farms	109	15	3	...	...	...
" Delivery Channel	1,460	9	1	...	...	...
" Fountains	4,153	15	4	...	...	...
" Pipes	2,898	11	6	...	...	...
" Walkman's Bungalow	214	0	1	...	...	...
Pumping Main Drain	1,240	1	6	...	...	...
Public Parks (People's Park)	232	4	7	...	...	...
Do. (Napier Park)	123	11	11	...	...	...
Repairs to Lanterns and Lamp Posts	206	0	8	...	...	...
Tools, repairs	466	4	0	...	...	...
Tools and Plant	1,989	3	8	...	...	...
Working the Electric Light	2,204	4	10	253	14	6
Private Service Pipe Work	21,329	15	6	2,080	3	0
Private Accounts	1,962	12	0	565	13	6
Maintenance of Slaughter Houses	29	11	11	...	...	...
" of South Beach Band Stand	1	4	7	...	...	...
" of Roads	207	13	3	9	4	11
" of Avenues	34	6	5	0	0	11
" of Latrines	257	11	9	...	...	...
Store Account	16	15	0	8	2	7
Dust Bins	783	7	10	...	...	...
Maintenance of Fences	8	8	0	...	...	...
Miscellaneous, Numbering Lamps	977	11	10	...	...	...
New Works, Water Supply	3,477	14	3	...	...	...
Do. Improvements for Fire Engines	1,036	12	6	...	...	...
Tools and Plant, New Engine	5,933	1	8	...	...	...
Census	562	1	11	...	...	...
Manufacturing an Iron boat	1,203	12	1	...	...	...
New Works, Miscellaneous	1,412	2	9	...	...	...
Strand Rents	285	12	7	...	...	...
Vaccination	0	14	9			
Market (Smithfield)	0	6	10			
Maintenance of Tools	...	...	...	51	5	11
Band Stand				1,076	13	9
Total Rupees...	65,130	0	2	7,124	4	0

CONSERVANCY.

The grant for Conservancy was Rs. 2,20,000 of which Rs. 2,17,614 had been paid during the year.

The following table shews the out-door staff at the end of 1880 and also the different tools at the end of 1879. An increase will be noted under the head of House Conservancy, 7th Division, to which the system of the separate collection of night soil was extended at the beginning of the year and still continues.

Table shewing the Conservancy Staff attached to each Division on the 31st December 1880.

Divisions.	Street Conservancy.																			House Conservancy.									
	Labour.											Bullocks.																	
	Side Coolies.	Box Cartmen.	Cesspool Boys.	Sweepers.	Latrine Men.	Latrine Women.	Latrine Boys.	Latrine Girls.	Beach Coolies.	Hand Cartmen.	Coolies for loading Trollies.	Bullocks, Pairs.	Bullocks, Single.	Drivers.	Contractor's Carts Rubbish, Sewage and Latrine.	Municipal Box Carts.	Municipal Iron single Bullock Carts.	Municipal Lorries.	Municipal Hand Carts.	Municipal Barrel Carts drawn by Men.	Bullocks, Pairs.	Bullocks, Single.	Drivers.	Coolies.	Hand Cartmen.	Contractor's Carts.	Municipal Box Carts.	Municipal Lorries.	Municipal Single Bullock Carts.	Municipal Iron Hand Carts.
1st Division ...	47	6	7	28	20	15	1	1	...	12	1	39	4	43	37	...	4	2	12	1	...	20	20	...	...	...	...	...	...	...
2nd do. ...	44	25	13	46	10	8	...	...	...	...	1	71	...	71	70	...	...	1	...	...	3	...	3	...	24	...	...	3	...	24
3rd do. ...	43	23	15	40	10	2	1	1	6	...	3	63	...	63	61	...	...	2	...	...	4	...	4	...	24	...	...	4	...	24
4th do. ...	8	3	3	7	4	4	...	...	...	3	...	10	...	10	7	3	...	...	3	...	...	...	...	...	...	...	...	...	...	...
5th do. ...	49	16	18	36	25	18	...	...	...	6	...	53	4	57	51	2	4	...	...	2	...	...	...	...	...	...	...	...	...	...
6th do. ...	20	1	5	14	13	11	...	...	...	2	...	13	1	14	13	...	1	...	...	1	2	8	10	12	...	1	1	...	8	...
7th do. ...	49	22	23	47	17	9	1	2	...	...	...	66	1	67	63	3	1	...	...	...	17	8	25	8	36	...	...	0	8	36
8th do. ...	26	12	11	19	14	10	2	1	...	...	...	34	...	34	30	4	...	...	...	...	...	...	...	4	...	...	...	17	...	...
Total...	286	108	95	237	113	77	5	5	6	23	5	349	10	359	332	12	10	5	15	4	26	36	62	24	84	1	1	24	16	84

PUBLIC WORKS AND CONSERVANCY DEPARTMENT.

Scavangers, Bullocks and Carts.—For the purpose of conservancy the City is divided into two Ranges (North and South) each under a Sanitary Inspector, and according to the last census 1880-81 the first four divisions, which constitute the North Range, had a population of 2,03,371, and the remaining four or the South Range 1,94,541 people.

The scavengers and bullocks and carts are supplied on contract and there are :—

1 Cart Contractor for street conservancy only.
1 Labor Contractor.
2 Bullock Contractors (one for each range for all conservancy.)

The Street Conservancy carts are supplied and maintained at the rate of Rs. 1-13-0 per month. The carts for House Conservancy are the property of the Commissioners.

The coolies at the average rate of Rs. 4-10-4 for each man, woman or boy while the bullocks are charged as follows :—

1 Bullock with driver.....	Rs.	11	15	Per Month.
1 Pair ordinary bullocks with driver	„	18	14	„
1 Large do	„	24	0	„

I wish here to record again my opinion that I believe the carts would be in a much more effective state were they Municipal instead of Contractor's property, and that the amount of Rs. 7,300, the hire of carts for the year, would be better spent in paying interest and sinking fund on a loan. We would require say 350 new carts, and these can be made of a superior pattern at Rs. 150 each, or say Rs. 52,500. A loan could be had for at 6 per cent. including sinking fund, and the cost would be Rs. 3,150. Supposing it cost Rs. 2,000 per annum to keep these carts in repair there would be a saving of over Rs. 2,000 annually. This fact is, I think, worthy of consideration by the Commissioners. The old carts at present in use should be disposed of after they are taken from the contractor at a valuation.

DISPOSAL OF RUBBISH AND NIGHT-SOIL.

Statement shewing the places where Rubbish Sewage Latrine Carts have been depositing during the year 1880.

Places of Deposit.	Rubbish Cart loads.	Silt Cart loads.	Night Soil.			Remarks.
			Latrine Cart loads.	Bucket loads.	Iron single Bullock Carts.	
Washermenpett Esplanade ...	8,863	...	...	...	...	
Breaches on Beach Road ...	...	6,010	...	...	...	
Rope Godown Parcherry ...	...	996	...	...	...	
Lalagoontah Lane ...	...	2,136	...	...	...	
Wall Tax Road, Low grounds ...	...	15,765	..	...	...	
Basin Road ...	33,188	13,628	...	...	...	
Corookoopett ...	49,660	...	...	6,915	3,709	
Eadgah Mosque ...	...	15,905	...	...	...	
Attapoliem ...	...	1,794	...	...	...	
Cuttivaukum Road ...	2,823	...	...	...	...	
Mafuskhan's Garden ...	...	1,391	...	...	...	
Perambore Slaughter House ...	1,403	...	...	...	...	
Low grounds in 4th Division ...	...	3,829	...	...	...	
Manally Depôt ...	19,091	...	4,855	46,792	7,091	
Venkatakistna Street ...	...	2,028	...	...	...	
Kistnadoss Street ...	2,660	...	...	...	...	
Coomarasawmy Moodelly Garden...	665	...	...	...	...	
Manally Street ...	679	...	...	...	...	
Nullapah Vathiar Street ...	200	...	...	..	...	
Brick-kiln Road Rubbish Depôt ...	39,660	8,720	4,506	15,224	4,786	
People's Park ...	...	1,111	...	..	...	
Low places in Choolay and Purse-waukum ...	...	9,618	...	...	...	
Do. in 5th Division Centre Ward	...	7,599	...	...	...	

PUBLIC WORKS AND CONSERVANCY DEPARTMENT.

Statement shewing the places where Rubbish, Sewage, Latrine Carts have been depositing during the year 1880.—(Continued).

Places of Deposit.	Rubbish Cart loads.	Silt Cart loads.	Night Soil.			Remarks.
			Latrine Cart loads.	Bucket loads.	Iron single Bullock Carts.	
Stirling's Road Depôt ...	272	...	742	...	2,968	
Mackay's Parcherry ...	7,303	...	...	...	...	
Munnaroosawmy Covil ...	...	1,008	...	...	...	
Low places in Chintadripettah ...	...	4,914	...	...	...	
Basin Bridge Rubbish Depôt ...	1,540	...	...	..	...	
Cocoanut Tope 5th Division North Ward ...	...	1,783	...	...	...	
Meer Hoomayoon Jah Bahadoor Garden ...	578	...	...	...	...	
Barber's Bridge Rubbish Depôt ...	21,199	...	3,471	43,776	...	
Soopary Goontah ...	...	10,875	...	...	...	
Ice House Road Dry Rubbish Shoot	...	9,962	...	...	...	
Triplicane Nullah ...	...	...	...	...	urine 882	
Tank in Begum Saib Street ...	...	5,298	...	...	...	
Low places in 8th Division North Ward ...	...	4,006	...	...	...	
St. Thomé High Road Rubbish Depôt ...	7,832	...	...	...	...	
Low places in 8th Division South Ward ...	...	7,073	...	...	...	
Kistnampettah Farm and Rubbish Depôt ...	10,697	...	...	...	...	
Chepauk Grounds ...	2,118	...	...	...	...	
Kistnampettah Cart Depôt ...	1,093	...	127	5,718	...	
Perambore Barracks Road ...	109	48	...	...	...	
Total...	211,633	135,497	13,701	118,425	19,436	

As has already been shewn in the preceding table the rubbish of the city and silt from the drains conveyed to the different rubbish depôts was 2,11,633 rubbish and 1,35,497 box cart loads. Barrel carts were employed in disposing of sulliage water and urine collected chiefly from the Vepery Lines where it is received from the sepoys' huts in earthen vessels; this conservancy is paid for specially by Government.

Bullocks.—I regret to report that we have had another attack of mouth disease among the Municipal Bullocks. They were as on a former occasion removed from the depôt and segregated into smaller lots. The epidemic commenced on 29th November 1880 and ended on 11th December 1880, but during that short period 102 bullocks died. Had there been funds the depôts would have been improved, but funds did not allow. I am glad, however, now to be able to report that arrangements are now in hand for improving, flooring and draining the depôts.

The carts, lorries and buckets used in the house to house conservancy and previously described as well as about 46 carts for street conservancy are the property of the Commissioners. A new iron boat was built in the Workshops during the year for the conveyance of the full iron buckets to the night-soil depôt. It carries about 72 buckets as compared with 38 carried by an ordinary wooden boat, the cost of the boat was Rs. 1,203-12-1 as against £190—which was asked for a similar boat to be made and delivered at home. To facilitate and cheapen the cost of conveyance of night soil, 6 more iron boats will be built during 1881. The wooden ones are getting past work.

PUBLIC WORKS AND CONSERVANCY DEPARTMENT.

Carts, &c.—The carts supplied by the contractor are not in what might be called a first class condition. They have been for many years in use—handed down from one contractor to another, and are, no doubt, difficult to repair. Efforts still continues to be made to force him to keep his carts in better repair.

The chief Rubbish Depôts during the year were at

Coorkoopett.	Manally Depôt.	Barber's Bridge.
Washermenpett.	Brick Kiln Road.	St. Thomé High Road.
Basin Road.	Mackay's Parcherry.	

Rubbish was also deposited at Kishnampett Farm for the purpose of improving and extending it, and also at other places noted in the table.

The right of selling rubbish from the first two following depôts was let on contract at the rates noted, and the total receipts for rubbish were

Coorkoopett.....	Rs.	200	0	0
Brick Kiln Road.....	„	2,952	0	0
Other Depôts.....	„	22	8	0
		3,174	8	0

Once rubbish is deposited if in proximity to houses or public roads, it cannot, for sanitary reasons, be dug out again for several years, and in general, low, swampy sites are selected, which require raising, and hence a permanent improvement results.

Night-soil was separately collected during the year in the 1st, 2nd, 3rd, 6th, and 7th Divisions of the Municipality—the 1st and 7th Divisions being additional to those done in 1879. In the following summary is included the night-soil collected by Iron Carts which contain 16 cubic feet and by Buckets which contain about 18 Gallons or say 3 cubic feet. The night-soil from the 1st, 2nd and 3rd Divisions go to Manally Depôt which is let on contract at Rs. 1,760 per annum, that from the 6th Division to Stirling's Road and that from the 7th Division to Barber's Bridge. Night-soil is not sold at either of these latter depôts as probably much nuisance would be occasioned thereby to the adjacent population. The returns therefore show a total collection of Rubbish and Silt 6,671,606 cubic feet.
Night-soil (separately collected) 912,869 cubic feet.

CLEANING DRAINS.

The expenditure has amounted to Rs. 764 only. The Black Town Main Drain was not cleaned during the year. The greater part of this was for arrears of 1879. The following works unpaid at the end of the year were also executed.

Removing 183 yards of silt from Triplicane Main Drain ...Rs. 165 15 3
Removing 166 yards from Drain in Triplicane ... „ 171 14 0

As regards the Black Town Main Drain, no doubt, the pumping previously referred to has had a considerable effect in lessening the usual deposit of filth in the drain.

KILLING DOGS.

An amount of Rs. 239 only was spent on Killing Dogs. The carcases were afterwards used to feed the Park Animals. The expenditure was reduced from the causes previously noted.

SEWAGE FARMS.

Madras has five sewage farms, but only three of these are of importance. Sewage farming is not carried in Madras with the object of a profit being derived, but rather with the idea of efficiently disposing of the sewage, and that in a mode which has as yet shewn no bad effect on those residing near the places of disposal. Although we shew a slight loss by our Sewage Farms, it must be remembered that high rents have to be paid for certain of the lands, and that, were the sewage not disposed of in this way, some more expensive and less sanitary method would have to be adopted.

PUBLIC WORKS AND CONSERVANCY DEPARTMENT.

The expenditure and receipts from the four sewage farms under control of this Department, (the fifth being under Robinson Park Committee,) are shewn in the following tables :—

D'MELLOW'S ROAD FARM.

Area 11 acres, 3 roods and 586 square yards.

	Rs.	A.	P.
Sale of hay and grass	2,468	2	1
Stock on hand on the 31st December 1880 ...	...	...	...
Total Rs...	2,468	2	1
*Deduct value of stock on hand on the 31st Dec. 1879	705	5	0
Rs...	1,762	13	1

	Rs.	A.	P.
Superintendent	178	0	0
Labour	1,275	6	2
Repairing double picottah	2	10	0
Stores	44	10	4
Carting hay	29	11	8
Repairing wooden scales	12	5	5
Cutting grass	173	6	1
Rs...	1,716	1	8
Profit	46	11	5
Rs...	1,762	13	1

* This was the actual stock on the Farm at the new valuation for 1880 and not as shewn in the report for 1879.

TRIPLICANE FARM.

Area 5 acres and 866 square yards.

	Rs.	A.	P.
Sale of hay and grass	2,200	14	0
Stock on hand on the 31st December 1880 ...	17	8	0
Total Rs...	2,218	6	0
Deduct value of stock on the 31st Dec. 1879...	541	9	9
Rs...	1,676	12	3
Loss	1,114	14	2
Rs...	2,791	10	5

	Rs.	A.	P.
Superintendent	143	0	0
Labour	1,576	1	2
Stores	93	2	1
Levelling ground and forming beds, &c	729	8	11
Weeding beds	7	3	0
Bamboo mats and Tarpaulins purchased	22	0	0
Cleaning Nullah	2	5	4
Transplanting grass	19	12	3
Quit-rent paid to Deputy Collector	3	4	0
Repairing a hut on the eastern side of Buckingham Canal	4	8	0
Repairing Picottah and wooden troughs, &c...	64	14	2
Cutting grass	113	15	6
Carting hay	12	0	0
Rs...	2,791	10	5

KISTNAMPET FARM.

Area 5 acres, 3 roods and 1,028 square yards.

	Rs.	A.	P.
Sale of hay and grass	4,039	2	8
Stock on hand on the 31st December 1880 ...	36	11	0
Rs...	4,075	13	3
*Deduct value of stock on the 31st Dec. 1879	989	4	6
Rs.	3,086	8	9

	Rs.	A.	P.
Superintendent	180	0	0
Labour	1,632	9	3
Stores	109	11	8
Bamboo mats and Tarpaulins purchased	37	14	0
Coolies for cutting grass	362	12	2
Repairing a Picottah, &c	16	5	4
Do. Scales	16	5	4
Carting hay	251	0	7
Rs...	2,606	10	4
Profit	479	14	5
Rs...	3,086	8	9

* This was the actual stock in the farm at the new valuation for 1880 and not as shewn in the report for 1879.

EGMORE FARM.

	Rs.	A.	P.
Sale of grass	31	1	0
Loss	88	15	0
Rs...	120	0	0

	Rs.	A.	P.
Labour	119	12	0
Stores	0	4	0
Rs...	120	0	0

The aggregate loss is Rs. 677-3-4, but this is exceptionable—one cause being the failure of the crops on D'Mellow's Road Sewage Farm, which were attacked by insects after the heavy monsoon, and another being the extension of the Triplicane Farm to almost double its area from the new portion of which little or no return was made. In addition to the above expenditure the following rents were paid :—

Kistnampet Sewage Farm, from December /79 to November /80 inclusive at 40-15-2	491	6	0
Royapet Sewage Farm, from July /79 to 31st March /80 ...	18	0	0
Kistnampet, from July /79 to 31st March /80	9	0	0
Rs...	518	6	0

PUBLIC WORKS AND CONSERVANCY DEPARTMENT.

SANDING LATRINES.

The following 120 latrines were sanded during the year at the cost noted.

1st	Division	East Ward.	...Latrines	5 =	Rs. 17	11	4
,,	,,	Centre ,,	... ,,	10 =	132	13	0
,,	,,	West ,,	... ,,	5 =	53	2	0
2nd	,,	North ,,	... ,,	2 =	17	11	4
,,	,,	South ,,	... ,,	2 =	20	10	0
4th	,,	...	... ,,	5 =	51	14	0
5th	,,	North ,,	... ,,	12 =	249	12	5
,,	,,	South ,,	... ,,	4 =	54	1	3
6th	,,	South ,,	... ,,	19 =	94	15	3
7th	,,	South ,,	... ,,	18 =	190	12	11
8th	,,	North ,,	... ,,	19 =	283	11	0
8th	,,	South ,,	... ,,	19 =	65	1	7
				120 =	1,232	4	1

These latrines are merely enclosures surrounded by four open walls and being without any convenience whatever the urine soaks through the sand and into the ground. They are a disgrace to Madras, and I trust in time to remodel them, not only to do away with a great nuisance, but to induce people to frequent them rather than the fields, alleys, by-lanes and sides of streets as the poorer classes do at present. This will, however, take time, and constant watchfulness is necessary by the Police at night in order to obtain so desirable a result.

BURIAL AND BURNING GROUNDS.

The following additional Burial and Burning Grounds were registered during the year.

Return shewing additional Burial and Burning Grounds registered during 1880.

Division.	Ward.	Street.	Whether Burial or Burning Ground.	Measurement.			Classes of persons buried or burnt.	Remarks.
				C.	Gr.	Sq. Ft.		
1	Centre	Washermen Burying Place	Burial & Burning.	1	3	0	All classes	
1	West	Cuttewaukum Road.	Burial	...	...	1200	Family Burial Ground.	
4	...	Peramboor Large Tank	Burial & Burning.	...	2	200	Sudras of all classes	
4	...	Maleputtada Ponnapah Modelly Street.	do	...	3	600	Brahmins & Sudras of all classes	
4	...	Peramboor Large Tank.	do	...	1	800	Pariahs	
4	...	Manally Street.	do	...	12	1562	Vellahs, &c.	
4	...	Maleputta Ponnapah Modelly Street.	do	...	1	600	Pariahs	
4	...	Do.	do	...	1	1320	Chucklers	
6	North	Muntapum Street.	do	...	2	1752	Vellahs &c.	
6	do.	Taylor's Road.	do	...	2	1767½	Pariahs	
6	South	Peter's Road.	Burial	...	1	350	Mahomedans	
8	North	Barber's Bridge Road.	do	...	...	660,1/8	Family Burial Ground Mahomedans	
				2	8	822¼		

This makes a total of 162 Burial and Burning Grounds and an area of 141 cawnies, and 908⅜ square feet devolved to this purpose.

The Municipal grounds cost for labor and maintenance Rs. 63 during the year, but there are no improvements of any importance that can be detailed.

Slaughter Houses.—These were carefully attended to throughout the year and repaired as will be seen in another portion of this report.

The meat supply as shewn by the returns was as follows :—

	Monegar Choultry.	Choolay.	Triplicane.	Total of sheep.	Perambore.
	Sheep.				Cattle.
1879	176,256	142,729	23,028	342,014	9,072
1880	174,621	136,933	24,397	335,933	1,0607

PUBLIC WORKS AND CONSERVANCY DEPARTMENT.

The fees realized amounted to Rs. 7,241-15-11. There are also two small private Slaughter Houses, but from these no returns of cattle slaughtered were received.

MARKETS.

Municipal.

General Market.—The rents realized from the stalls in this market during the year were—

By rent of Stalls	Rs. 6,382	12	0
„ Petty Collections	„ 648	5	3
	7,031	1	3

This market ought to be abandoned; it is unsuitable in many respects for its purpose and indeed want of money is the only reason why it was not disused so long ago and a new General Market erected in its stead.

Vepery Market.—The Vepery Market acquired by the Commissioners in 1879 was kept open during the year and several improvements referred to elsewhere were made. This market was intended to meet the convenience of the public and take the place of the Choolay Market for which a license was refused in 1879; but it was not until after an appeal to the High Court was decided against the owner that the vendors and hence the public made much use of this Market—although a Market superior in every respect to the old Choolay one.

On the closing of Choolay Market, however, in October 1879, the Market at once became popular, and the rents realized in October, November and December 1880 were Rs. 270-1-3—the total of the previous four months being only Rs. 54-9-0. There are further improvements contemplated and in execution, and there is now, no doubt, that the market will prove a boon to the public of this locality as well as remunerative to the Commissioners, the income in April 1881 being nearly Rs. 260 or a gross return of Rs. 3,120 per annum on Rs. 20,000 or 15 per cent.

Private Markets.—There were licensed last year 28 private markets

First Class.....	1
Second „	8
Third „	9
Fourth „	10

Every market was thoroughly inspected at the beginning of the year, and the owners were required to carry out the works which were considered necessary by this department in order to put them into a sanitary condition and to meet the requirements of the Municipal Act. Many great improvements were effected, and the chief vegetable market of Madras is being entirely remodelled, drained and paved on plans furnished by this department. These improvements will, no doubt, leave their mark for the better, as from the market issues the chief food supply of Black Town.

Cart Stands.—The income derived from Municipal Cart Stands was Wall Tax Road, Rs. 880 and Stephenson's Road, Rs. 300.

Fifteen private cart stands were licensed during the year as against fourteen in 1879.

Kerosene Stores.—These stores which were maintained during the year were little used. The importers reduced their stock as far as possible under the limit at which they were obliged to use the store, and in other cases they made approved alterations on existing premises. The number of licenses issued for inflammable oils was 13.

The Kerosene Store was so little used that it has now been given up (May 1881), and all importers are required to find suitable places of their own for storage.

Lighting.

The lighting was executed in 1880 by the Contractors who had the work in 1879, *i.e.*, C. Balakistna Moodelly & Co. at Rs. 1-3-9 per lamp, the same rate as for 1879.

PUBLIC WORKS AND CONSERVANCY DEPARTMENT.

The lighting has been fairly conducted, and from the fact the fines are less than in 1879 it may be said that the lighting was on the whole better than in that year.

The following table shews the lighting seasons with the number of lamps in use at the beginning of each season and of the additions made in each division during the year, the result being an increase of 157 lamps.

Season.	Number of Lamps at the end of each Season.	Amount of Bill.			Fines.			Lights newly fixed. Divisions. 1	2	3	4	5	6	7	8	Total added.
		RS.	A.	P.	RS.	A.	P.									
30th Dec. 1879 to 16th Jany. 1880. ...	1,825	2,252	11	9	24	0	0	1	...	...	...	...	...	...	1	2
29th Jany. to 15th Feb. ...	1,826	2,253	15	6	24	3	0	...	...	...	...	1	...	1	...	2
27th Feb. to 15th March ...	1,830	2,258	14	6	11	12	0	1	...	1	...	...	...	...	...	2
28th March to 14th April ...	1,830	2,258	12	3	13	3	0	...	...	...	...	...	...	...	...	...
26th April to 14th May ...	1,829	2,257	10	9	41	1	0	...	...	...	...	...	...	...	...	...
25th May to 12th June ...	1,841	2,272	7	9	17	11	0	2	1	...	4		...	1	2	12
24th June to 12th July ...	1,851	2,284	13	3	16	9	0	1	...	...	...	3	...	...	6	10
22rd July to 10th August ...	1,859	2,293	1	3	22	4	0	4	...	1	...	...	...	...	2	7
22nd Aug. to 9th Sept. ...	1,864	2,300	14	0	20	11	0	...	2	2	...	...	...	1	...	5
21st Sept. to 8th Oct. ...	1,871	2,309	8	3	23	10	0	...	...	1	...	1	3	...	2	7
20th Oct. to 7th Nov. ..	1.883	2,324	5	3	24	4	0	...	...	2	3	5	2	...	..	12
19th Nov. to 6th Dec· 1880. ...	1,980	2,407	4	6	56	10	0	...	..	...	16	29	4	22	27	98
		27,474	7	0	304	14	0	9	3	7	23	41	9	25	40	157

There were 12 seasons and the inspecting force consisted of 10 men as in the previous year. The inspection made amounted to 79,531, an average of 42 inspections for each lamp in a year or 3·5 reports per each lamp per season. Out of the above 3,666 defects in lighting or in the state of the lamps, frames, &c., were observed, for which fines were levied amounting to Rs. 304-14-0 as shewn above.

FIRE ENGINES.

The Fire Engines were located at the same places as formerly.

The cost of establishment was Rs. 984—including Rs. 12 a month paid for exercising to coolies who live near the Engines.

The cost of repairs to Fire Engines amounted to Rs. 88-1-8.

The fires that occurred during the year under review were as follows :—

On the night of the 6th January 1880, House No.11 in Ummen Pagoda Street took fire, and through the exertions of the Police was extinguished before the arrival of the Municipal Fire Engines.

Another accident was reported on the afternoon of the 15th February of a pandal erected for a Native Drama in Munnaroosamy Covil street. The fire was put out by the Police, and the neighbouring inhabitants having been suspected, some persons were arrested and taken into custody.

On the afternoon of the 12th July the portion of a hut in Edward Elliot's Road was seen on fire, but its progress was arrested by the timely measures resorted to by the inhabitants of the place.

A fire of an alarming nature occurred in Popham's Broadway in the Bamboo and Wood Depôts on the night of the 22nd July. Although the Engines of the Municipality and the Police were on the spot a little after the fire broke out and every assistance possible rendered, the fire was not got under till early next morning. The damages caused by the fire was roughly estimated at about Rs. 7,000. Water was supplied by the Steam Fire Engine by one of the new Hydrants previously alluded to.

PUBLIC WORKS AND CONSERVANCY DEPARTMENT.

WATERING ROADS.

The following roads were watered twice daily throughout the year except on occasions of rainfall.

Names of Roads.	Length.	Breadth.	Squares.	
Monegar Choultry Road, from Town Wall to Railway Crossing	1,080	22	237	60
Wall Tax Road, from China Baazar Road to Ramanen Street	600	20	120	
Ramanen Street, from Wall Tax Road to Ramanooja Iyer Street	1,200	20	240	
Audiappa Naick Street, from Ramanooja Iyer Street to Popham's Broadway...	2,700	20	540	
China Baazar Road, from Wall Tax Road to Patchappa's Hall	3,000	20	600	
Errabaloo Chetty Street, from Popham's Broadway to North Beach	1,900	20	380	
General Hospital Road, East slope, from Bridge to Wall Tax Road	360	40	144	
General Hospital Road, from Wall Tax Road to China Baazar Esplanade Road	800	30	240	
Wall Tax Road, from China Bazaar Road to General Hospital Road	3,470	25	867	50
China Bazaar Esplanade Road, from General Hospital Road to Lamp post...	1,220	30	366	
Thieving Bazaar Esplanade Road, from Lamp post to Eroosappah Maistry Street	600	30	180	
Eroosappah Maistry Street, from China Bazaar Street to Thieving Bazaar Esplanade Road	1,130	30	339	
China Bazaar Street, from Wall Tax Road to Vuradah Moothiappen Street...	2,610	25	652	50
Munnady Street, from Popham's Broadway to Jaffer Serang Street	1,048	18	188	64
Do. do do ...	520	12	62	40
Do. do do ...	129	10	12	90
Popham's Broadway, from Munnady Street to Ebramjee Saib Street	2,720	20	544	
North Beach Road, from Arbuthnot's Lane to Gopaul Chetty Lane	1,325	30	397	50
Do. from Errabaloo Chetty Street to Arbuthnot's Lane	1,810	30	543	
Popham's Broadway, from Moocur Nullamoothoo Chetty Street to Munnady Street	1,400	20	280	
Do. from Errabaloo Chetty Street to China Bazaar Esplanade Road	1,130	28	316	40
China Bazaar Esplanade Road, from North Beach Road to Jamadar Tannah	3,340	25	335	
North Beach Road, from Errabaloo Chetty Street to China Bazaar Esplanade Road	615	30	184	50
Popham's Esplanade Road, from China Bazaar Esplanade Road to Thieving Bazaar Esplanade Road ...	1,280	25	320	
Benifield's Esplanade Road, from Thieving Bazaar Esplanade Road to Wallajah Bridge	2,980	30	894	
Hospital Esplanade Road, from Benifield's Esplanade Road to China Bazaar Road...	1,460	30	438	
Band Beach Road, from Fort Beach Road to Victoria Bridge	1,800	40	720	
Whannel's Road, from Pantheon Road to Poonamallee Road	1,550	40	620	
Poonamallee Road, from Whannel's Road to General Hospital Bridge	4,250	50	2,125	
Mount Esplanade Road and Mount Road, from Wallajah Bridge to Nungumbaukum Road	15,000	50	7,500	
Wallajah Road, from Mount Road to Mecca Gate ...	2,600	40	1,040	
Triplicane High Road, from Wallajah Road to Ice House Road	5,100	30	1,530	
	70,727		22,957	94

PUBLIC WORKS AND CONSERVANCY DEPARTMENT.

The amount expended was Rs. 5,558, but of this Rs. 725-11-9 was for repair of carts. The actual cost of watering therefore was Rs. 0-3-4 per square per annum.

AVENUES.

The maintenance of the avenues was transferred to this Department when the reduction of establishment took place in June last. The staff at the end of the year was as follows :—

2 Maistries | 42 Men | 10 Carts

The number of trees existing in each Ward at the end of 1880 and the number requiring to be watered is as follows :—

Division.	Ward.	No. of trees in December 1880.	No. requiring to be watered.	No. planted during 1880.
1	East	255	16	...
	Centre	579	288	28
	West	178	...	...
2	North	...	...	...
	Centre	51	51	...
	South	483	273	...
3	North	65	...	...
	Centre	...	...	...
	South	461	401	14
4	...	785	129	129
5	North	172	...	...
	Centre	540	51	...
	South	1,511	426	...
6	North	1,647	65	...
	South	1,458	434	...
7	North	358	...	...
	Centre	1,797	518	4
	South	218	99	...
8	North	1,173	467	...
	South	1,510	475	425
	Total...	13,241	3,693	600

The staff allowed is, I think, insufficient for the work to be done, especially so, during the hot weather.

MISCELLANEOUS.

IMPROVEMENTS.

Two streets in Triplicane were extended so as to communicate with main roads in their vicinity, and steps are being taken to open out two other streets in the same neighbourhood. Preparations are being made to remove huts and open out streets in the crowded parcherry known as the Tinnevelly Settlement and at the time I write this work is far advanced.

NOTICES, &c.

There still remains to be brought to notice the action of this department whereby private parties were ordered to comply with various Sections of the Municipal Act and also the results of those cases in which persons either failed to carry out what was required of them or in which they were prosecuted without notice.

It will be observed that while the number of notices served on persons for neglect or requiring them to undertake certain works were in excess of those of 1879, the total prosecutions were many less than in that year. The probability is that the extra work thrown on the Overseers by the preparations of notices took up time which was formerly spent in prosecutions. The convictions in 1880 were 40 per cent. and the acquittals 37 per cent. of the prosecutions, but in 1879 the numbers were 50 per cent. and 14 per cent.

PUBLIC WORKS AND CONSERVANCY DEPARTMENT.

PERMITS.

Table No. 30 shews the number of permits granted during the year for the erection or repair of buildings, sheds, &c. The facts to be noted are that 397 dwellings of inflammable materials (leaves, mats, &c.) and 262 pucka buildings (mud or brick walls and tiled or terraced roofs) were erected during the year.

COLLECTIONS.

The collections by this Department during the year amounted to Rs. 75,132-11-3 as against Rs. 79,447-15-2 in 1879.

The amount received for licenses for offensive and dangerous trades shews an increase from Rs. 8,686-14-7 to Rs. 8,805-12-0. The details of the licenses issued and amounts received are to be found in table No. 25. The notable increases in the collections are Markets Rs. 950, Slaughter Houses Rs. 459, Rents Rs. 635, Cart Stands Rs. 800, Services rendered Rs. 2,000. The decreases are Sale of Public Lands Rs. 7,366, Sale of Rubbish Rs. 437, Water supply Rs. 293, &c. The decrease in sale of Public Lands is occupied by an abnormal receipt in 1879.

The foregoing is as far as can be succintly given a result of the operations of this department in 1880. It cannot be but an unsatisfactory record looking to what might be done; but the financial difficulties before alluded to prevented further action by this department.

The following is a summary of the chief points of our work which, when scattered through a long report, may not have been brought prominently forward.

The separate collection of night-soil has been extended to the 1st and 7th Divisions. Two new pucka latrines have been built during the year. New pumping machinery has been provided, and the sewage from the south end of the Main Drain is now regularly pumped into the new intercepting sewer and is discharged to the north of the Harbour, instead of being locked up during the day and night and discharged with fearful odours over a long sketch of sand into shallow water. The water supply has been considerably improved by the introduction of Scour Pipes. A considerable length of new drains have been laid and the portion of the town through which they run has been considerably improved. The scheme for the drainage of the remainder of the town has been completed. Several other schemes were being got ready for execution at the end of the year and as an earnest of future advance Government have been now (May 1881) asked for loans to commence the scheme for drainage and the extension of the water supply.

CENSUS.

The Census operations occupied a large portion of the time of this department during August, September, October and November when the preliminary Census was taken—and the final Census has been also completed befere the date of this report. In the preliminary Census the staff consisted of 20 Superviors, (Municipal Overseers) 20 Assistant Overseers and 300 Enumerators and in the final that staff plus 603 Assistant Enumerators.

The area of Madras is 26·82 square miles; Fort St. George not now within Municipal limits has an area of 0·25 square miles.

I have the honor to be,

Sir,

Your most obedient servant,

J. A. JONES, A.M.I.C.E.,

Vice-President, Madras Municipal Commission.

PUBLIC WORKS AND CONSERVANCY DEPARTMENT.

TABLE No. 1.

NEW WORKS, BUILDINGS.

Latrines.

	RS.	A.	P.
Constructing Male and Female latrines in Ebramjee Saib Street ...	823	5	3
Laying a 2½" branch to the do. ...	257	11	9
Constructing Male and Female latrines near Municipal Market, Pursewaulkum	312	0	0
Total Rupees...	1,393	1	0

TABLE No. 2.

Dust Bins.

	RS.	A.	P.
Erecting 3 masonry dust bins in China Bazaar Street	16	15	8
Do 2 do do in Soreappa Moody. & Thumboo Naick Streets	6	7	11
Do 2 do do in Mozuffur Hussain Bahadoor Street ...	8	3	10
Do 2 do do in Adam Street	10	9	2
Manufacturing a corrugated iron dust bin at the Workshops	10	3	0
Manufacturing 69 dust bins for the 2nd Division South Ward	431	2	10
Do 55 do 5th, 6th, 7th and 8th Divisions ...	332	2	0
Fixing a dust bin near the gate of General Hospital	20	0	0
Total Rupees...	835	12	5

TABLE No. 3.

New Drains.

Length L. Feet.		RS.	A.	P.
3890¼	Constructing drains in Pursewaulkum High Road, Thacker's Street and Letang's Road	1,491	11	11
	Salary of Mr. Moore, Surveyor	48	4	4
	Paid to Mr. Moore for taking levels, &c.	900	0	0
	Rent of Drainage Office	169	5	8
	Salary of Establishment	523	10	9
	Do Mr. Dumphy, Surveyor	10	0	0
	Do Mr. Muller as Draughtsman	65	0	0
	Do Assistant Overseer	60	0	0
	Sundries	243	10	6
	Printing and Advertising	163	12	0
	Making 6 iron level pegs	0	8	1
	Manufacturing a drawing board for the Vice-President's Office ...	21	5	7
	Repairing two drainage tables, &c.	75	12	7
	Manufacturing 4 Brick-layer's keys	0	7	11
	Supplying 30 pieces of 3 inches C. I. spourting pipes, each 15 inches long to 2nd Division South Ward	10	15	3
	Manufacturing 3 wooden steps	12	3	3
	Cost of removing furniture from Drainage Office to Municipal Office	9	2	10
	Making 30 iron pegs for Surveyor	2	3	11
	Manufacturing a box for packing plans	11	3	4
1028½	Constructing drains in Wall Tax Road	1,987	2	11
1176	Do Yadapaulium Street...	1,162	0	8
123	Do Buddriah Garden Street	139	5	5
106	Do Vencataroyer Street	114	9	9
236	Do Kistappa Maistry Street	234	9	4
77	Do Battery Veerasamy Ally	45	10	10
130	Do Narasimathasary Ally	88	7	4
1159	Do China Bazaar Street	1,878	4	5

PUBLIC WORKS AND CONSERVANCY DEPARTMENT.

TABLE No. 3.

New Drains (continued.)

Length L. Feet.		RS.	A.	P.
	Contingencies for the above	169	8	1
55	Constructing branch drains in Narasima Thasary Lane ...	15	3	7
869	Do drain in Anoomuntharayen Street ...	743	11	2
219	Do Kistnapah Maistry Street	176	5	0
389	Do Hoossain Saib Street	372	0	10
260	Do Vencatasamy Lane	201	1	8
239½	Do Singanan Street	293	8	9
456	Do Yala Condappan Street	669	14	2
835	Do Nannian Street	517	5	2
405	Do Ponappan Ally	427	5	3
210	Do Buddriah Garden Street	125	10	5
925	Do Vencatarayen Street	782	4	3
826½	Do Yadapolium Street	578	10	4
	Constructing cess-pool in Wall Tax Road	44	11	5
	Do China Bazaar Street	45	14	8
	Contingencies for the above	149	5	7
	Total Rupees...	14,782	0	11

TABLE No. 4.
MAINTENANCE OF ROADS.
Statement of works completed during 1880, *from January to December.*

Estimate Number.	Division.	Names of Roads.	Amount of Estimate.			Amount of Bill.			Amount paid during the year.			Amount not paid.			Length.			Breadth.	Thickness.	Squares.
1880.			Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	M	F.	Yds.	Ft.	In.	
13	1st	Reforming the centre of the Road in Mannally Depôt	1,158	4	5	1,158	4	5	1,158	4	5	...	...	...	...	3	56	12	6	448·42
64	..	Do. do. Washermanpettah Village Road from Esplanade Limit to Kistnier Well	559	2	0	559	2	0	559	2	0	...	...	...	...	3	180	15	3	378·00
70	...	Do. Mannaroosawmy Covil Road, Royapooram from Cemetery to Culmundapam Road	727	12	0	727	12	0	727	12	0	...	...	...	...	3	160	20	3	492·00
88	...	Do. Trivattoor High Road, from Kistnier well to Gumbalammen Covil Street	1,331	4	0	1,331	4	0	1,331	4	0	...	...	...	...	6	180	20	3	900·00
89	...	Do. Thaguppa Chetty Street, from Mooniappa Moodally Street to Kathivaukum High Road	253	13	2	253	13	2	253	13	2	...	...	...	...	2	37	12	3	171·60
100	...	Do. Madah Church Street, from North Railway Terminus to South Madah Church Street	162	6	7	162	6	7	162	6	7	...	...	...	...	...	207	15	3	109·80
101	...	Do. North Madah Church Street, from West Madah Church to Beach Road...	264	7	7	264	7	7	264	7	7	...	...	...	...	1	72	18	3	178·80
102	...	Do. Murry Doss Street, from North Railway Terminus to South Madah Church Street in Royapooram	162	6	7	162	6	7	162	6	7	...	...	...	...	...	207	15	3	109·80
103	...	Do. Gollawaraggraram Road, from Jandrapillyar Covil Street to House No. 26, Thondayarpet	275	2	0	275	5	3	273	5	3	..	...	...	...	2	77	12	3	186·00
104	...	Do. Monegar Choultry Road, from Esplanade limit to Jandrapillyar Covil Street, Thondayarpet	284	0	0	284	0	0	284	0	0	...	..	...	...	2	93	12	3	192·00
105	...	Do. Monegar Choultry Esplanade Road, from Railway Crossing to Esplanade limits, Thondayarpet	228	8	6	228	8	6	228	8	6	...	...	...	...	1	123	15	3	154·50
		Total...	5,407	2	10	5,407	6	1	5,405	6	1	...	...	...	3	5	72	...	...	3320·92
3	2nd	Do. the centre of Wall Tax Road, from Basin Bridge Road to Elephant Gate...	1,198	1	8	1,198	1	8	1,198	1	8	...	...	...	...	6	103	20	3	878·00
33	...	Do. Pareanna Street, from Stringer's Street to Arrack Godown Street ...	73	8	10	73	8	10	73	8	10	...	...	...	...	...	140	12	3	53·90
34	...	Do. Colunday Street, from Godown Street to do.	61	6	6	61	6	6	61	6	6	...	...	...	...	...	140	10	3	45·00
57	...	Do. Soobramanya Moodelly Street, from Ummen Covil Street to Nattoo Pilliar Covil Street	141	10	5	141	10	5	141	10	5	...	.	...	...	1	53	12	3	103·80
58	...	Do. Condalyer Street, from Peddoo Naick Street to Cooppoo Iyer Street ...	87	3	2	87	3	2	87	3	2	...	...	...	..	...	173	12	3	63·90
59	...	Do. Venayagah Maistry Street, from Moolla Saib Lane to Annah Pillay Street	81	14	0	81	14	0	81	14	0	...	...	...	...	...	197	10	3	60·00
60	...	Do. Cope Vencatachella Iyer Street, from Govindappah Naick Street to Narayna Moodelly Street	62	12	14	62	12	4	62	12	4	...	...	...	...	..	180	8	3	46·00
		Carried over...	1,706	8	11	1,706	8	11	1,706	8	11	...	...	...	1	3	106	...	...	1250·60

MAINTENANCE OF ROADS—(continued).

Statement of works completed during 1880, *from January to December.*—(continued.)

Estimate Number.	Division.	Names of Roads.	Amount of Estimate.			Amount of Bill.			Amount paid during the year.			Amount not paid.			Length.			Breadth.	Thickness.	Squares.
1879			Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	M.	F.	Yds.	Ft.	In.	
		Brought forward...	1,706	8	11	1,706	8	11	1,706	8	11	...	...	...	1	3	106	...	...	1250·60
66	2nd	Reforming Wall Tax Road, from China Bazaar Street to Elephant Gate Tannah...	113	3	4	113	3	4	113	3	4	...	...	...	...	...	127	20	3	76·00
67	..	Forming the Road, from the Workshops gate to Trevelyan Cart Depôt in Annah Pillay Street	13	5	0	13	5	0	13	5	0	...	...	...	...	...	13	10	4	4·00
71	...	Reforming the centre of Thathamoothiappen Street to Mint Street	250	12	1	250	12	1	250	12	1	...	...	...	...	1	147	12	3	134·60
81	...	Do. Puttoo Rasappa Moodly Street, from Nagamany Garden Street to Gateway of Haffix Mahomed Gouse Sahib	42	4	10	42	4	10	42	4	10	...	...	...	...	...	103	10	3	31.00
82	...	Do. Anacaraconan Street, from Portuguese Church Street to Seven Wells Street	110	8	6	110	8	6	110	8	6	...	...	...	..	...	217	12	3	81·00
83	...	Do. Moodookistnen Street, from Cooppoo Iyer Street to Peddoo Naik Street.	124	11	9	124	11	9	124	11	9	..	...	...	...	..	165	12	3	60·00
92	...	Do. Pulliappen Street, from Annah Pillay Street to Andiappa Naik Street...	126	14	6	126	14	6	126	14	6	...	...	...	...	1	27	12	3	93·00
106	...	Do. China Bazaar Street and also removing and raising the sides from Anoomuntharoyen Street to Wall Tax Road	630	14	8	630	14	8	630	14	8	...	..	...	...	1	177	25	4	306·40
107	...	Do. General Hospital Road Eastern slope, from Bridge to Wall Tax Road ...	196	8	0	196	8	0	196	8	0	...	...	...	...	...	120	40	3	144·00
108	...	Do. The centre of General Hospital Road, from Wall Tax Street to China Bazaar Esplanade Road	327	8	0	327	8	0	327	8	0	...	..	...	...	1	47	30	3	240·00
109	...	Do. China Bazaar Street, from Mint Street to Vurtha Mootheappan Street...	385	2	6	385	2	6	385	2	6	...	...	...	...	1	153	25	3	282·25
120	...	Do. Seven Wells Street, from Ummen Covil Street to second Narrainen Street	287	0	7	287	0	7	287	0	7	...	...	...	...	2	132	12	3	210·35
129	...	Do. Mint Street, from Ummen Covil Street to Mint gate	723	3	8	723	3	8	723	3	8	...	...	...	...	4	3	20	3	530·00
130	...	Do. Old Jail Street, from Mint Street to Popham's Broadway	594	15	4	594	15	4	594	15	4	...	...	...	...	3	161	15	3	436·00
		Total...	5,633	9	8	5,633	9	8	5,633	9	8	...	...	...	4	0	158	...	..	3,879·20
91	3rd	Do. Popham's Broadway, from Errabaloo Chetty Street to Moocur Nullamoothoo Street.	401	9	4	401	9	4	401	9	4	...	..	...	...	2	170	20	4	122·00
2	...	Do. Ibramjee Saib Street, from Popham's Broadway to North Black Town Road	1,507	0	3	1,507	0	3	1,507	0	3	...	...	...	1	0	205	20	3	920 80
8	..	Do. Moocur Nulla Moothoo Street, from Singana Naik Street to Jehangheer Street	304	6	7	304	6	7	304	6	7	...	...	...	...	1	213	15	3	205·80
9	...	Do. Jehangheer Street, from Arbuthnot's Lane to Errabaloo Street	546	8	10	546	8	10	546	8	10	...	...	...	...	2	143	20	3	369·50
25	...	Do. Arbuthnot's Lane, from North Beach Road to Jaffir Serang Street ...	114	15	10	114	15	10	114	15	10	...	...	...	...	...	120	15	3	66·50
28	...	Metalling the sides of North Beach Road in front of High Court, &c.	1,955	0	0	1,955	0	0	1,604	1	4	...	...	...	...	1	79	23	3	326·71
		Carried forward...	4,829	8	10	4,829	8	10	4,478	10	2	...	...	...	2	2	50	...	...	2011·31

MAINTENANCE OF ROADS—(continued).

Statement of works completed during 1880, *from January to December.*—(continued.)

Estimate Number.	Division.	Names of Roads.	Amount of Estimate.			Amount of Bill.			Amount paid during the year.			Amount not paid.			Length.			Breadth.	Thickness.	Squares.
			Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	M.	F.	Yds.	Ft.	In.	
1879		Brought forward ..	4,829	8	10	4,829	8	10	4,478	10	2	...	...	...	2	2	50	...	...	2011·31
46	3rd	Reforming the centre of Kistnasamy Covil Street and raising a part of the same with debris between Coral Merchant Street and Jaffer Serang Street...	214	13	2	214	13	2	214	13	2	...	...	...	...	1	111	12	3	111·92
50	...	Do. the centre of Popham's Esplanade Road from Thieving Bazaar Esplanade Road to China Bazaar Esplanade Road	473	5	4	473	5	4	473	5	4	...	...	...	...	1	206	25	3	320·00
53	...	Do. Narayanappa Naick Street and raising a portion of the same with debris from Thumboo Chetty Street to North Beach Road	386	3	9	386	3	9	386	3	9	...	...	...	...	1	170	15	3	178·70
54	...	Do. the centre of Benifield's Esplanade Road from Hospital Esplanade Road to Wallajah Bridge	602	12	2	602	12	2	602	12	2	...	...	...	...	2	103	25	3	407·50
76	...	Do. Thieving Bazaar Esplanade Road from Benifield's Esplanade Road to Light House Esplanade Road	733	10	8	733	10	8	733	10	8	...	...	...	...	2	217	25	3	496·00
127	..	Do. Fort Beach Road from Saluting Battery to South Sea Gate	591	10	8	591	10	8	..	...	...	591	10	8	...	3	7	20	3	400·00
128	...	Do. Fort Beach Road from South Sea Gate to Thieving Bazaar Esplanade Road	621	4	0	621	4	0	...	...	...	621	4	0	...	3	40	20	3	420·00
138	...	Do. Thieving Bazaar Esplanade Road from China Bazaar Esplanade Road to Benifield's Esplanade Road	328	6	0	328	6	0	...	...	..	328	6	0	...	2	53	15	3	222·00
		Total...	8,781	10	7	8,781	10	7	6,889	7	3	1,541	4	8	4	5	77	...	...	4567·43
4	4th	Do. the centre and sides of Basin Road from Powder Mills Road to the Basin Bridge	835	15	0	835	15	0	835	15	0	...	...	...	...	7	126	10	3	500·00
38	...	Do. the centre of Perambore Tank Road from Perambore High Road Toll Gate to Limit...	244	11	0	244	11	0	244	11	0	...	...	...	...	1	180	15	3	180·00
56	...	Do. centre of Barracks Road from Strahan's Road to Gantz Road	198	7	6	198	7	6	198	7	6	...	...	...	...	1	23	20	3	146·00
65	...	Do. Basin Road from Powder Mills Road to D'Mellow's Road	518	4	6	518	4	6	518	4	6	...	...	...	...	4	153	10	3	310·00
99	...	Do. Farren's Road from Cook's Road to D'Mellow's Road	539	2	1	539	2	1	539	2	1	...	...	...	...	4	1	15	3	396·60
		Total...	2,336	8	1	2,336	8	1	2,336	8	1	...	...	..	2	3	43	...	...	1532·60

MAINTENANCE OF ROADS—(continued).

Statement of works completed during 1880, *from January to December.*—(continued.)

Estimate Number.	Division.	Names of Roads.	Amount of Estimate.			Amount of Bill.			Amount paid during the year.			Amount not paid.			Length.			Breadth.	Thickness.	Squares.
			Rs.	A.	P.	Rs.	A.	P	Rs.	A.	P.	Rs.	A.	P.	M.	F.	Yds.	Ft.	In.	
5	5th	Reforming Harris Road from Harris Bridge to Pantheon Road	1,033	2	0	1,033	2	0	1,033	2	0	...	...	...	...	5	56	20	3	763·85
10	...	Do Perambore Barracks Road from Astaboojum Road to Strahan's Road ...	509	14	6	509	14	6	509	14	6	...	...	...	...	2	13	20	4	294·40
11	...	Do Perambore Barracks Road from Pursewalkum High Road to Astaboojum Road	526	1	3	526	1	3	526	1	3	...	...	...	...	3	123	15	3	387·50
21	...	Do Sydenham's Road from Vepery High Road to Poonamallee Road ...	371	1	9	371	1	9	371	1	9	...	...	...	...	1	192	20	3	288·32
22	...	Do Sydenham's Road from Rottegedungoo Theroovengada Modelly Street to Vepery High Road	271	14	0	271	14	0	271	14	0	...	...	...	...	1	113	20	3	200·00
23	...	Do Sydenham's Road from Elephant Gate Esplanade Road to Rottegedungoo Theroovengada Modelly Street	693	12	0	693	12	0	693	12	0	...	...	...	...	3	7	20	4	410·20
29	...	Forming Letang's Road from Ritherdon Road to Pension Office Gate	420	10	0	420	4	0	420	4	0	...	...	...	...	3	70	14	3	315·15
30	...	Do the centre of Thacker's Street from Letang's Road to Pursewalkum High Road	278	14	10	278	14	10	278	14	10	...	...	...	...	4	148	11	3	209·83
31	...	Do do do ...	284	8	4	283	10	9	283	10	9	...	...	...	...	2	146	11	3	209·80
48	...	Reforming Pursewalkum High Road from Lunatic Asylum Road to Ritherdon Road	1,178	13	10	1,178	13	10	1,178	13	10	...	...	...	1	5	70	15	3	732·50
49	...	Do Letang's Road from Ladur Gate Road to Pension Office Gate	119	11	9	119	11	9	119	11	9	...	...	...	...	...	210	12	3	88·08
51	...	Do Gun Carriage Road from Poonamallee Road to Stringer's Road	180	11	5	180	11	5	180	11	5	...	...	...	...	...	200	15	3	134·30
52	...	Do Stringer's Road from Gun Carriage Road to Naval Hospital Road ...	175	10	3	175	10	3	175	10	3	...	...	...	..	1	124	12	3	129·21
61	...	Forming the centre of Hall's Road from Johnson's Gate to Casa Majors Road ...	432	4	0	380	15	9	380	15	9	...	...	...	...	1	163	15	4	186·50
80	...	Do the New Road in People's Park near the Deer's Cage	229	1	3	229	1	3	229	1	3	...	...	...	...	...	74	20	4	50·04
90	...	Reforming the centre of Jeremiah's Road from Ritherdon Road to Rundall's Road	369	12	0	369	12	0	369	12	0	...	...	...	...	2	107	15	3	274·40
91	...	Do Hunter's Road from Pursewalkum High Road to Choolay Bazaar Road...	996	7	4	996	7	4	996	7	4	...	...	...	1	0	23	12	3	613·40
93	...	Do Avadhanam Papier Road from Choolay Bazaar Road to Perambore Barracks Road	623	13	4	623	13	4	623	13	4	...	...	...	...	3	153	12	5	304·00
110	...	Do Vepery High Road from Sydenham's Road to Rundall's Road	610	8	4	610	8	4	610	8	4	...	...	...	...	4	3	15	3	449·30
121	...	Do Ponneyamman Covil Road from Whannel's Road to Pantheon Road ...	108	1	1	108	1	1	108	1	1	...	...	...	...	...	170	15	3	81·50
122	...	Do Egmore High Road from Police Office Road to Gengoo Reddy Road ...	356	13	4	356	13	4	356	13	4	...	...	...	...	2	127	15	3	264·50
133	...	Do Poonamallee Road from Sydenham's Road to First Mile Stone	322	13	8	322	13	8	322	13	8	...	...	...	...	1	97	25	3	237·50
134	...	Do Poonamallee Road from 1st Mile Stone to Rundall's Road	662	11	2	662	11	2	662	11	2	...	...	...	...	3	7	25	3	500·00
		Total...	10,757	3	5	10,704	11	7	10,704	11	7	...	...	...	9	0	196	...	...	7124·28

MAINTENANCE OF ROADS—(continued).

Statement of works completed during 1880, *from January to December.*—(continued.)

Estimate Number.	Division.	Names of Roads.	Amount of Estimate.			Amount of Bill.			Amount paid during the year.			Amount not paid.			Length.			Breadth.	Thickness.	Squares.
1880			Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	M.	F.	Yds.	F.	In.	
12	6th	Reforming the centre of Nungumbaukum High Road, from Codampaukum Road to Mowbray's Bridge	1,671	9	8	1,716	10	3	1,716	10	3	...	...	...	1	1	40	12	3	727·20
43	...	Do. Club House Road, from Club House Gate to Mount Road	292	5	10	292	5	10	292	5	10	...	...	...	...	...	186	15	3	143·60
44	...	Do. Kistnama Charry Road, from Nungumbaukum High Road to Village Road	301	11	5	301	11	5	299	11	5	...	...	...	...	2	56	10	3	157·70
77	...	Do. the centre and sides of Pursewaulkum High Road, from Brick Kiln Road to Madavaukum Tank Road	783	8	4	773	2	4	773	2	4	...	...	...	...	5	134	11	3	407·00
78	...	Do. the centre of Taylor's Road, from Kilpaukum Garden Road to Poonamallee Road	581	0	0	581	0	0	581	0	0	...	...	...	...	3	210	12	3	336·00
79	...	Do. Harley's Road, from Balfour's Road to Kilpaukum Garden Road ...	228	4	0	228	4	0	228	4	0	...	...	...	...	1	147	12	3	132·00
84	...	Do. Normal School Road, from Mount Road to Normal School Gate ...	129	6	4	129	6	4	129	6	4	...	...	..	...	1	58	12	3	68·40
85	..	Do. Binny's Road, from Commander-in-Chief's Bridge to Mount Road ...	637	8	0	622	10	3	622	10	3	...	...	...	...	1	130	34	3	333·25
		Total...	4,625	5	7	4,645	2	5	4,643	2	5	...	...	...	3	2	81	...	...	2310·15
6	7th	Do. the centre and sides of Mount Road, from Round Tannah to Government Bridge	1,481	0	9	1,433	14	7	1,433	14	7	...	...	...	...	5	46	30	3	1031·10
26	...	Do. the centre and sides of Mount Road, from Round Tannah to General Patter's Road	1,165	8	0	1,165	8	0	1,165	8	0	...	...	...	...	2	40	30	3	432·00
27	...	Do. the centre of Janay Jahan Kahn Bahadoor Road, from Ice House Road to Pycroft's Road	605	6	1	591	6	0	591	6	0	..	...	...	...	3	60	15	3	342·00
45	...	Do. of Wallajah Road, from Mount Road to Mackey's Gate	623	11	1	572	8	10	572	8	10	...	...	...	...	4	45	15	2	416·40
69	...	Do. Arunachella Naick Road, from St. Andrew's Bridge to Mount Road ...	996	0	0	989	2	7	989	2	7	...	...	...	...	5	78	15	3	549·70
98	...	Do. Wallajah Esplanade Road, from Junction of Body Guard Road to St. Mary's Bridge	179	2	8	179	2	8	179	2	8	...	...	..	...	...	133	20	4	80·00
112	...	Do. Singracharry Street, from Bundy Vencatasa Naicken Street to Tharady Street	262	13	4	262	13	4	262	13	4	...	...	...	...	1	33	20	3	152·00
113	...	Do. Bundy Vencatasa Naicken Street, from Triplicane High Road to Singracharry Street	202	5	0	202	5	0	202	5	0	...	..	...	...	1	17	15	3	119·70
115	...	Do. Dam Road, from Mount Road to Sawmy Naick Road	585	12	1	585	12	1	585	12	1	...	...	...	...	3	37	15	3	339·30
		Carried forward...	6,101	11	0	5,982	9	1	5,982	9	1	...	...	...	3	2	44	...	...	3462·20

MAINTENANCE OF ROADS—(concluded).

Statement of works completed during 1880, *from January to December.*—(concluded).

Estimate Number.	Division.	Names of Roads.	Amount of Estimate			Amount of Bill.			Amount paid during the year.			Amount not paid.			Length.			Breadth.	Thickness	Squares.
1880			Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	M.	F.	Yds.	Ft.	In.	
		Brought forward...	6,101	10	10	5,892	9	1	5,892	9	1	...	...	...	3	2	44	...	...	3462·20
116	7th	Reforming Iyah Modelly Road, from Arunachella Naick Road to Colonel Law's Bridge	524	11	9	524	11	9	524	11	9	...	...	...	...	2	5	15	4	234·58
118	...	Do. Tholasinga Perumal Covil Street, from Bundy Vencatasa Naidoo Street to Ice House Road	435	12	0	435	12	0	435	12	0	...	...	..	...	2	27	15	3	252·00
119	...	Do. Tharady Street, from Madavecthi Street to Singracharry Street ...	262	13	4	262	13	4	262	13	4	...	...	...	...	1	33	20	3	152·00
		Total...	7,325	0	1	7,205	14	2	7,205	14	2	...	...	...	3	7	109	...	...	4100·78
35	8th	Do. the centre of Elliot's Road, from South Beach Road to Barber's Bridge Road	779	11	3	779	11	3	779	11	3	...	...	...	...	3	27	15	3	420·72
36	...	Do. Edward Elliot's Road, from Barber's Bridge Road to Royapett High Road	750	4	3	750	4	3	750	4	3	...	...	...	...	4	11	15	3	401·25
63	...	Do. Greenway's Road, from Adyar Bridge Road to Pugh's Road	1,234	1	0	1,234	1	0	1,234	1	0	...	...	...	...	6	147	15	3	660·00
68	...	Do. Edward Elliot's Road, from Royapettah High Road to Mowbray's Road...	770	0	7	770	0	7	770	0	7	...	...	...	...	3	163	15	3	423·57
96	...	Do. South Beach Road, from Ice House Road to Edward Elliot's Road ...	934	14	4	934	14	4	934	14	4	...	...	...	...	3	173	20	3	500·00
97	...	Do. South Beach Road, from Edward Elliot's Road to Corneesverer Covil Road	807	12	0	807	12	0	807	12	0	...	...	...	...	3	60	20	3	432·00
124	...	Do. Royapettah Bazaar Road, from Royapettah High Road to Mowbray's Road	336	9	0	336	9	0	336	9	0	...	...	...	...	1	180	15	3	180·00
125	...	Do. Royapettah High Road, from Peter's Road to Andy Street	158	11	11	156	11	9	156	11	9	...	...	...	...	...	178	15	3	84·90
		Total...	5,772	0	4	5,770	0	2	5,770	0	2	...	...	...	3	3	59	...	...	3102·44
		Grand Total...	50,638	8	7	50,484	14	9	48,588	11	5	1,541	4	8	34	4	135	...	...	29937·80

TABLE No. 5.

Table shewing the number of squares and length of Roads reformed in each Division.

Division.	Thickness.	Laterite, Gravel and Clay.								Laterite and Gravel.								Granite and Gravel.								Total.					Remarks.
		Squares.		Rate.			Length.			Squares.		Rate.			Length.			Squares.		Rate.			Length.			Squares.		Length.			
	Inch.			Rs.	A.	P.	M.	F.	Yds.			Rs.	A.	P.	M.	F.	Yds.			Rs.	A.	P.	M.	F.	Yds.			M.	F.	Yds.	
1	3	2,872	50	1	7	8	3	2	16	...	...	...	...	...	...	..	...	...	...	.	...	...	...	...	...	2,872	50	3	2	16	[jelly.
	4	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	..	...	164	21	0	0	211	Reformed with brick
	6	...	...	...	...	...	...	...	...	284	21	3	0	0	0	2	65	...	...	...	...	...	...	...	...	284	21	0	2	65	
2	3	3,568	80	1	5	10	3	6	188	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	3,568	80	3	6	188	
	4	310	40	1	12	3	0	1	190	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	310	40	0	1	190	
3	3	3,828	72	1	7	8	3	4	181	326	71	1	10	5	0	1	79	...	...	...	...	...	...	...	...	4,155	43	3	6	40	[and clay.
	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	290	0	0	4	87	Reformed with granite
	4	122	...	2	0	0	0	2	170	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	122	0	0	2	170	
4	3	1,127	60	1	5	9	1	5	14	...	...	...	...	...	..	...	...	405	...	1	15	9	0	6	29	1,532	60	2	3	43	
5	3	4,922	11	1	5	9	5	3	188	...	...	...	...	...	...	...	...	555	...	1	15	9	1	1	186	5,477	11	7	0	154	[jelly.
	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	402	03	0	5	72	Reformed with brick
	4	891	10	1	11	9	0	6	183	50	04	1	13	10	...	...	74	...	...	...	...	...	..	...	...	941	14	0	7	37	
	5	304	...	2	0	10	0	3	153	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	304	0	0	3	153	
6	3	690	...	1	11	8	1	0	94	1,435	15	1	13	11	1	7	30	...	...	...	...	...	...	...	..	2,125	15	2	7	124	[and clay.
	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	185	0	0	2	177	Reformed with granite
7	2	...	...	...	...	...	...	...	...	416	40	1	5	3	0	4	45	...	...	...	.	...	...	...	...	416	40	0	4	45	
	3	1,831	...	1	11	8	2	0	160	981	...	1	13	11	0	4	210	...	...	...	...	..	...	...	...	2,812	0	2	5	150	[granite and clay.
	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	482	10	0	2	96	Breaking &c. laying with
	4	390	28	2	3	10	0	3	38	...	...	...	..	...	...	...	...	...	...	...	..	...	...	...	...	390	28	0	3	38	
8	3	...	...	...	...	...	...	...	...	3,102	44	1	13	11	3	3	59	...	...	...	...	...	...	...	...	3,102	44	3	3	59	
Total...	...	20,858	51	...	...	...	23	2	35	6,595	95	...	...	...	6	7	122	960	...	..	...	...	2	2	215	29,937	80	34	4	135	

PUBLIC WORKS AND CONSERVANCY DEPARTMENT.

TABLE No. 6.

Table shewing materials used in each Division for repairing Roads not under liability.

Division.	Materials.	No. of Carts of 4 paras.	Rate per cart.			Amount.			Total.		
			RS.	A.	P.	RS.	A.	P.	RS.	A.	P.
1st	Granite ...	848½	0	7	9	410	15	10			
	Laterite ...	2,466	0	5	6	847	11	1			
	Clay ...	821¼	0	1	9	89	13	2			
									1,348	8	1
2nd	Granite ...	1,294	0	7	9	626	12	6			
	Laterite ...	2,591	0	5	6	890	10	6			
	Clay ...	866½	0	1	9	94	12	6			
	Gravel ...	1½	0	5	3	0	8	0			
									1,612	11	6
3rd	Granite ...	1,668	0	7	9	807	15	0			
	Laterite ...	3,347½	0	5	6	1,150	11	2			
	Clay ...	1,183¼	0	1	9	129	6	7			
	Gravel ...	4	0	5	3	1	5	0			
									2,089	5	9
4th	Granite ..	103½	0	7	9	50	2	1			
	Laterite ...	1,058	0	5	6	363	11	0			
	Clay ...	220¼	0	1	9	24	1	5			
									437	14	6
5th	Granite ...	511 $\frac{23}{32}$	0	7	9	247	13	9			
	Laterite ...	3,490 $\frac{3}{16}$	0	5	6	1,199	11	11			
	Clay ...	419½	0	1	9	45	14	1			
									1,493	7	9
6th	Granite ...	464⅝	0	7	9	225	0	10			
	Laterite ...	1,817 $\frac{1}{16}$	0	5	6	624	9	11			
	Clay ...	380½	0	1	9	41	9	10			
									891	4	7
7th	Granite ...	721 $\frac{7}{8}$	0	7	9	349	10	6			
	Laterite ...	2,817 $\frac{13}{16}$	0	5	6	968	10	0			
	Clay ...	366 $\frac{13}{16}$	0	1	9	40	1	11			
	Gravel ...	245 $\frac{7}{8}$	0	5	3	80	10	10			
									1,439	1	3
8th	Granite ...	491½	0	7	9	238	1	1			
	Laterite ...	2,845 $\frac{7}{16}$	0	5	6	978	1	9			
	Clay ...	30	0	1	9	3	4	6			
	Gravel ...	258¾	0	5	3	84	14	2			
									1,304	5	6
						Total Rupees ...			10,616	10	11

TABLE No. 7.

MAINTENANCE OF BUILDINGS.

Slaughter Houses.

	RS.	A.	P.
White-washing and repairing the Monegar Choultry Slaughter House ...	371	11	0
Altering the cess-pool in Triplicane Slaughter House in Chetty's Garden...	5	4	0
Repairing the flooring of stalls of Perambore Slaughter House 1879 ...	72	8	0
Repairing Carts, &c., of the Perambore Slaughter House	12	15	3
Making keys for locks of Monegar Choultry do	0	6	11
Repairing Carts of the Perambore Slaughter House	9	10	6
do Buckets of the Monegar Choultry Slaughter House... ...	0	9	9
do Hand Carts of the Perambore Slaughter House	6	1	6
Total Rupees...	479	2	11

PUBLIC WORKS AND CONSERVANCY DEPARTMENT.

TABLE No. 8.

General Market.

	RS.	A.	P.
Repairing, white and red-washing the General Market, Black Town ...	677	12	3
Total Rupees...	677	12	3

TABLE No. 9.

Municipal Market, Vepery.

	RS.	A.	P.
Repairing the Municipal Market, Vepery, 1879...	1,360	2	9
Constructing a temporary shed in do	50	6	0
Altering two Peon's Badges	0	6	10
Total Rupees...	1,410	15	7

TABLE No. 10.

Table shewing the Latrines and Urinals that were repaired.

	RS.	A.	P.
Raising and repairing the Female Latrine near Monegar Choultry Slaughter House	80	14	1
Do. do Male do. do ...	79	2	3
Re-constructing a Male and Female Latrine in Letang's Road ...	352	1	10
Repairing Tatty Latrine at Madana Coopum, Triplicane	28	14	0
Cleaning the well attached to the Latrine in Valayootha Chetty Street, Poodoopet...	1	0	0
Repairing the parapet wall of the well attached to the Latrine in Valayootha Chetty Street, Poodoopet	3	12	11
Do. two Temporary Latrines in Sarvana Perumal Street ...	9	14	0
Do. and white-washing the Male and Female Latrines in Karkatha Covil Parcherry	9	1	8
Do. two Tatty Latrines in Codampaukum Road	7	0	0
Do. do. do. in Madana Coopum	3	4	0
Do. Male and Female do. in Cooty Parcherry in Taylor's Road...	6	11	2
Do. do. on the Beach opposite Clive's Battery.	4	0	0
Do. do. on the Town Beach opposite do. ...	101	0	0
Do. do. Karkatha Covil Parrcherry ...	7	11	6
Do. the cesspool cover of the cesspit of the Latrine at Vasapoomode Parcherry	0	14	3
Do. the flooring of the Urinal in Eroosapah Maistry Street ...	3	2	10
Do. tatty latrines in Semmon Parcherry	7	14	0
Do. do. in do. do.	9	6	0
Do. do. Chetput village	8	5	0
Do. do. do. Parcherry	9	12	0
Do. do. do. do.	13	0	0
Do. Male and Female Latrine in Chetput village	3	0	0
Do. a cistern in the male latrine in Naval Hospital Road ...	1	0	8
Do. screen walls of the model latrine in Mount Road ...	6	6	9
Do. male and female latrines in Domingo Coopum	84	11	5
Removing and rebuilding a portion of Town wall in the male latrine in Wall Tax Road	31	0	0
Constructing 8 temporary latrines in People's Park, &c.	70	9	4
Total Rupees...	943	9	8

PUBLIC WORKS AND CONSERVANCY DEPARTMENT.

TABLE No. 11.

Table shewing the repairs, &c., done to Office Premises.

	RS.	A.	P.
Constructing Stables, Coach house, &c., in the Municipal Office	830	12	5
Repairing and white-washing the Municipal Office	130	1	5
Opening a gate-way, altering door shutters, &c., in Municipal Office ..	37	10	1
Removing Almirah and opening passage between the Mortuary and Vaccine Department	5	8	9
Erecting privy seats in South-West corner of the Municipal Office ...	9	7	1
Repairing and white-washing the Record room..	30	3	2
Repairing cracks over the terrace of the President's Room	4	14	0
Repairing colonnade and building a stone wall at the Municipal Office ...	106	2	1
Repairing 4 glass windows in the General Department of Do. ...	3	1	7
Total Rupees...	1,157	12	7

TABLE No. 12.

Toll Gates.

	RS.	A.	P.
Repairing the Toll Gates at Adyar Bridge Road, Chamier's Road and Mount Road	140	12	0
Do. Harrington Road, Poonamallee Road, Kilpaukum Garden Road, and Madavaukum Road	103	1	0
Total Rupees...	243	13	0

TABLE No. 13.

Stores and Workshops.

	RS.	A.	P.
Cleaning and repairing the Workshops...	15	10	10
Do. do.	2	7	11
Do. do.	124	5	9
Removing the Northern wall of the Workshops and extending the Western one up to the Northern wall of the Depôt at Trevellyan Basin ...	49	10	5
Cleaning and repairing the Workshops...	91	13	6
Do. do.	3	11	8
Do. do.	4	15	0
Total Rupees...	292	11	1

TABLE No. 14.

Maintenance of Cart Stands.

	RS.	A.	P.
Constructing two cross drains in front of the 2 gates attached to the Cart Stand in Wall Tax Road	83	0	9
Forming the approaches of the Cart Stand in Wall Tax Road ...	46	2	9
Total Rupees...	129	3	6

PUBLIC WORKS AND CONSERVANCY DEPARTMENT.

TABLE No. 15.

Maintenance of Dust Bins.

	RS.	A.	P.
Repairing 1 dust bin in Arunagherry Street	1	0	0
do 2 do Thanappa Chetty Street	2	0	0
do 2 do Oil Mongers Street	2	0	0
do 1 do Tharady Street	1	0	0
do 1 do Thavaraya Moodelly Street	1	0	0
do 9 Ice House Road, Nullathumby Moodelly Street, Triplicane High Road, Ramasawmy Maistry Street, Sooreappa Moodelly Street, Singracharry Street and Tholasinga Perumal Covil Street.	9	0	0
Refixing 10 dust bins in China Bazaar Street, Kistnapa Maistry Street, Hoossain Saib Lane, Hanumuntharayen Street, Yadapalium Street and Wall Tax Road	10	0	0
Repairing 3 stone dust bins in Moothoo Moodelly Street	3	0	0
do 8 „ Tholasingaperumal Covil Street, Vencatasa Naick Street, Alungatha Pillay Street, Nullathumby Moodelly Street, Anumuntharayen Covil Street and Thalayar Street ...	5	8	0
Removing and refixing one dust bin in Hunter's Road	1	0	0
Repairing the side walls of the 3 dust bins in Perambore Barracks Road ...	3	4	0
Do a dust bin in Naringadoo Parcherry	1	3	0
Refixing 8 stone dust bins in Vencatarayer Street, Hoossain Saib Street, Hanoomuntharayen Street and Yadapalium Street	8	0	0
Repairing dust bins in Pycroft's Road	9	7	6
do Triplicane High Road	6	13	8
do Coopoo Moothoo Street	5	3	6
do Triplicane High Road	7	8	0
do Nagappa Iyer Street	5	0	9
do 2 „ in Govindappa Naick Street	6	7	3
Total Rupees...	83	7	8

TABLE No. 16.

Maintenance of Cart Depôts.

	RS.	A.	P.
Removing old compound wall and rebuilding the same at the Trevelyan Cart Depôt	357	1	10
Reforming the road in the Trevelyan Cart Depôt	50	2	3
Metalling around the well and water cistern in Choolay Cart Depôt ...	37	3	0
Erecting a wall and fixing a door with frame to the store-room at Barber's Bridge Cart Depôt	10	15	0
Constructing a latrine in Choolay Cart Depôt	35	0	0
Total Rupees...	490	6	1

TABLE No. 17.

MAINTENANCE OF DRAINS.

Black Town Main Drain.

	RS.	A.	P.
Supplying blue stones to cover the Main Drain in Davidson's Street ...	1	7	9
Repairing the trap door of the Main Drain	93	13	7
Manufacturing 6 wooden levers and pieces of timber for trap door at screw-pile drain	29	3	0
Repairing the trap door at the screw-pile drain Engine	5	4	2
Altering the Engine house at the screw-pile drain	1	12	6
Repairing the trap doors of the Main Drain at the screw-pile drain ...	5	2	9
Repairing the cap of 9 Valve of Main Drain in north mouth ...	...	10	6
Altering Engine House at the screw-pile drain	351	13	5
Total Rupees...	489	3	8

PUBLIC WORKS AND CONSERVANCY DEPARTMENT.

TABLE No. 18.

Triplicane Main Drain.

	RS.	A.	P.
Removing old arches and rebuilding the same of the Triplicane Main Drain in Bungaroo Naick Street	174	15	4
Repairing the door attached to the Main Drain	1	8	0
„ the arch of the Main Drain in Chetty's Garden	3	4	7
Repairing Cess-pool doors attached to the Main Drain	9	12	0
Manufacturing a self-acting door to an earthenware pipe for the Main Drain	1	14	11
Altering a portion of side wall of the Main Drain in Bungaroo Naick Street	33	0	0
Total Rupees...	224	6	10

TABLE No. 19.

Table shewing other Drains that were repaired.

	Estimated Amount.			Amount Paid.		
	RS.	A.	P.	RS.	A.	P.
Constructing drains in Trevellyan Cart Depôt ...	197	0	0	181	4	7
Do Cess-pits, &c., in the Municipal Office ...	29	0	0	25	11	6
Repairing Parapet walls over the Culverts on the sides of Mount Road from Dam Boad to Nungumbaukum High Road	44	0	0	43	15	7
Covering a drain in the lane at Sitheevenayagar Covil Street, Pareamettu	14	12	0	...	...	...
Petty Repairs	362	11	5	332	14	7
2 Gratings, C. I. Sewer	23	14	3	23	14	3
4 Feet of Pipes Stoneware, 12 inches diameter ...	5	2	8	5	2	8
24 do do do 9 do do ..	12	0	0	12	0	0
Total Rupees...	688	8	4	624	15	2

TABLE No. 20.

MAINTENANCE OF TANKS.

	RS.	A.	P.
Excavating ditches along the banks of Madavaukum Tank ...	9	11	0
Clearing sewage, &c., from the Tank in Vegia Vignaswerer Covil Road, Choolay	6	1	6
Total Rupees...	15	12	6

TABLE No. 21.

MAINTENANCE OF WELLS.

	RS.	A.	P.
Sinking a pot well at the bottom of the Brick Well in Rasappah Chetty Street	33	12	10
Cleaning well in Karkatha Covil Parcherry	1	0	0
Repairing well in Egmore Parcherry	2	0	0
Total Rupees...	36	12	10

PUBLIC WORKS AND CONSERVANCY DEPARTMENT.

TABLE No. 22.

MAINTENANCE OF FENCES.

Cooum Fences.

	RS.	A.	P.
Repairing Cooum Fence from Harris Bridge to Commander-in-Chief's Bridge	45	15	0
Do in West River Side Road from Railway wall to St. Andrew's Bridge	38	15	0
Do in Lang's Garden Road from St. Andrew's Bridge to Harris Bridge	18	0	6
Do West Cooum Road	6	13	6
Do South do	3	12	6
Do West River Side Road	2	13	3
Do Lang's Garden Road	3	4	3
Do Cooum Road	4	15	3
Do Canal Road	3	8	0
Do do	5	10	0
Do do	4	0	0
Do do	6	0	0
Do do	3	10	0
Total Rupees...	147	5	3

TABLE No. 23.

Esplanade Fences.

	RS.	A.	P.
Fencing the Light House Esplanade	15	5	0
Salary of Sergeant	40	0	0
Wages of Coolies for replacing Wire Fence on Light House Esplanade...	84	0	0
Wires, &c., for do do ...	1,211	0	3
Total Rupees...	1,350	5	3

TABLE No. 24.

Other Fences.

	RS.	A.	P.
Constructing Compound Wall and Cross Tunnel in Hall's Road ...	815	2	11
Do do do do ...	2	4	10
Repairing the Wooden Railways at the Railway Crossing on the Elephant Gate Road	4	12	0
Do do Erucancherry Road	3	0	0
Do do Perambore High Road...	3	0	0
Do do do do	10	0	0
Total Rupees...	838	3	9

PUBLIC WORKS AND CONSERVANCY DEPARTMENT.

TABLE No. 25.

Statement shewing the number of Markets, Depôts, Dangerous and Offensive Trades licensed and amount received during 1880.

Sections.	No.	Particulars.	Amount.			Total.		
			RS.	A.	P.	RS.	A.	P.
B. L.	28	Markets	1,700	0	0			
B. L.	20	Mutton Stalls	20	0	0			
B. L.	13	Beef Stalls	13	0	0			
311	1	Latrine for Markets	3	0	0			
322	10	Cattle Yards	58	0	0			
322	28	Chunam Kilns	560	0	0			
322	28	Indigo-Dyeing Yards	216	0	0			
322	7	Tanneries	525	0	0			
322	97	Oil-boiling Houses	485	0	0			
322	31	Brick Kilns	280	0	0			
322	1	Cement Works	100	0	0			
322	19	Manufacturing Fireworks ...	19	0	0			
322	13	Storing Kerosine Oil	325	0	0			
322	8	Camphor-Boiling Houses ...	40	0	0			
322	5	Storing Lucifer Matches ...	125	0	0			
322	1	Storing Skins	50	0	0			
322	48	Pottery Kilns	127	12	0			
322	1	Manure Works	50	0	0			
322	1	Dynamite Magazine	100	0	0			
323	7	Sheep Pens	58	0	0			
325	18	Saltfish Bazaars	18	0	0			
325	965	Hack Stables	574	0	0			
325	2	Slaughter Houses	200	0	0			
325	15	Cart Stands	343	0	0			
328	2	Blood and Bone Depôts	100	0	0			
328	285	Firewood and Brushwood Depôts ...	1,110	0	0			
328	1	Palmyra Depôts	9	0	0			
328	4	Redwood do	72	0	0			
328	148	Timber do	922	0	0			
328	18	Charcoal do	120	0	0			
328	1	Straw do	3	0	0			
333	94	Oil Mills	470	0	0			
					Total...	8,805	12	0

TABLE No. 26.

Statement shewing the particulars of lands sold during the year 1880.

Extent of Land.	Locality.	Names of Purchasers.	Purchase Amount.		
sq. ft.			RS.	A.	P.
174	Tharady Street	Bilijiri Iyengar ...	43	8	0
16	Hindoo Burial and Burning Ground, Washermenpetta	Mauree Ammal and S. Moothoosawmy Nathen	16	0	0
2¼	Burial Ground, Chocrane Canal ...	Thagaraya Moodly ...	1	4	0
168¾	Lingee Chetty Street	M. Gopaul Chetty ...	42	3	0
16	Shaik Maistry Street	Angapachary ...	8	0	0
36	Triplicane Burial and Burning Ground ...	T. Bungaroo Naidoo ...	18	0	0
24	Hindoo Burial and Burning Ground, Washermenpetta	Ramalinga Soondra Moodelly ...	12	0	0
130	Ummen Covil Street, Black Town ...	Poorooshothum Pillay ...	20	0	0
9	Hindoo Burial and Burning Ground, Triplicane..	Moonia Buthen ...	4	8	0
102½	Luchmoodoss Street, Peddoo Naikpetta ...	Cavary Boyee ...	25	8	6
9	Hindoo Burial and Burning Ground, Mylapoor...	Gooroosawmy Moodly ...	4	8	0
435¼	Varatha Moothiapen Street, Black Town ...	T. Vengatanarausa Pillay ...	217	12	0
141	Govindapa Naik Street	M. Rungia Naidoo ...	70	8	0

PUBLIC WORKS AND CONSERVANCY DEPARTMENT.

TABLE No. 26.—*(continued.)*

Extent of Land.	Locality.	Names of Purchasers.	Purchase Amounts.		
			RS.	A.	P.
31—6	Aucharapen Street, Peddoo Naikpetta ...	P. Nullathumby Moodly ...	62	0	0
155¼	Govindapa Naik Street, Peddoo Naikpetta ...	Soondrummal and others ...	77	15	0
171¼	Yagambra Easvera Pagoda Street ...	Jaganatha Davy ...	71	5	8
180	Lingee Chetty Street, Black Town ...	Aroonachella Auchary ...	60	0	0
80¾	South Madah Street, Triplicane ...	Hoosain Saib and others ...	20	2	6
317¼	Mint Street, Peddoo Naikpetta ...	S. Ponnoosawmy Chetty ...	158	10	0
	Triplicane Burial and Burning Ground ...	Dy. Collr. of Madras ...	511	3	9
287	Lingee Chetty Street ...	C. Mooniappa Chetty ...	95	10	8
39	Nullathumby Moodly Street ...	L. Vengatarungum Naidoo ...	5	8	0
191¼	Aroonachala Auchary Street, Triplicane ...	Iyahavoo Chetty ...	23	14	8
64	Mylapoor Burial and Burning Ground ...	P. Camalanatha Pillay ...	32	0	0
156¾	Oil Monger Street, Triplicane ...	Jaffer Saib ...	13	1	0
400	Annah Pillay Street ...	G. Ramiah Chetty ...	100	0	0
75	Aucharapen Street ...	C. Yathirajuloo Naidoo ...	25	0	0
328¼	Vurthamootheapen Street ...	Esock Saib ...	164	2	0
176	Moothoo Maree Chetty Street, Black Town ...	Hajee Mahomed Kauleel Kermani ...	36	10	8
159¼	Lutchmoodoss Street, Black Town ...	A. Soobaroya Chetty ...	66	5	8
221¼	Rasapa Chetty Street, Black Town ...	P. Streeramooloo Chetty ...	138	4	6
	Varatha Moothiappen Street ...	Ramalingum ...	22	8	0
	Annah Pillay Street, Black Town ...	Moonoosawmy Chetty ...	17	1	0
175	Wall Tax Road ...	C. Madaracanee Pillay ...	43	12	0
625	Wall Tax Road, Black Town ...	V. Kristnappa Chetty ...	156	4	0
278¼	Moor Street, Black Town ...	C. Narayana Chetty ...	37	2	2
145	Patcha Pillay Street, Mylapoor ...	Soobraya Moodelly ...	6	0	8
36	Triplicane Hindoo Burial and Burning Ground...	Soondra Ammal ...	18	0	0
76	Avadanum Paupier Street ...	Gopaul Naidoo ...	6	5	4
26¾	Patnool Sadir Singh Street ...	V. Ramasawmy Chetty ...	21	2	0
		Total...	2,473	12	9

TABLE No. 27.

The following is a Table of the number of Notices served under various Sections of Act V of 1878, showing those complied with and those not complied with from January to December 1880.

Section of the Act.	Requisitions.	Complied with.	Not complied with.	Total.	Remarks.
257	Requiring to give notice to the President before commencing building ...	62	13	75	
266	„ to construct a drain ...	1	...	1	
269	„ to keep branch drains and privies in order ...	17	...	17	
271	„ to put proper troughs and pipes ...	2	..	2	
272	„ to provide latrines for servants on land exceeding 8 grounds ...	12	...	12	
273	„ to provide latrines and urinals for laborers	2	...	2	
277	„ to remove encroachments ...	343	...	343	
278-79	„ to remove projections ...	38	...	38	
290	„ to fence ruined and dangerous buildings	105	...	105	
293	„ to enclose deserted buildings ...	10	...	10	
294	„ to repair or enclose dangerous places...	90	...	90	
300	„ to deposit filth in places where receptacles were provided ...	12	...	12	
305	„ to divert sewage flowing into streets...	10	...	10	
312	„ to remove filth and noxious vegetation...	171	4	175	
320	„ to trim hedges above 7 feet ...	160	5	165	
328	„ to take out license for Timber, Firewood and Hay depôts ...	10	...	10	
352	„ to drain Markets ...	2	...	2	
405	For entering upon houses and lands ...	3	...	3	
Bye-Laws		2,524	82	2,606	
	Total...	3,574	104	3,678	

PUBLIC WORKS AND CONSERVANCY DEPARTMENT.

TABLE No. 28.

Table shewing the number of Prosecutions instituted from 1st January to 31st December 1880.

Sections of the Municipal Act.	Charge.	Number of summons served.	Convicted.	Acquitted.	Withdrawn.	Party not found.	Undisposed of.
225	For fouling water in tanks	6	5	1	...	...	...
256	„ renewing huts with inflammable material without license... ...	127	19	64	21	...	23
273	„ not providing Latrines and Urinals...	1	...	...	1	...	...
278	„ neglecting to remove projections after service of Notice	3	1	1	1	...	...
281	„ neglecting to remove obstructions on the sides of the streets ...	44	11	32	...	...	1
286-287 ...	„ depositing building materials on the road without license	2	2	...	...	...	...
294	„ neglecting to enclose dangerous places	1	...	1	...	...	...
298	„ depositing night soil on the street...	25	7	15	3	...	...
299	„ depositing dust, dirt, ashes, &c., in the street...	2	1	1	...	...	...
304	„ neglecting to remove filth within 24 hours	17	5	3	9	...	...
305	„ allowing offensive liquid matter to run into the street	2	2	...	...	...	...
309	„ throwing rubbish, &c., into sewers or drains	1	1	...	...	...	...
312	„ filthy premises	39	25	11	3	...	...
315	„ overcrowding	1	...	...	...	...	1
320	„ neglecting to trim hedges above 7 feet	3	1	...	2	...	...
322-323 ...	„ carrying on offensive trades without license	205	70	62	72	...	1
325	„ using a place as hack stables without a license	92	48	27	17	...	...
328-329 ...	„ using a place as timber Depôt without a license	178	101	53	23	1	...
349	„ neglecting to take out license for private Markets	1	...	...	1	...	...
350-51 ...	„ do Market do ...	6	4	2	...	...	...
352	„ neglecting to properly drain Markets, &c.	11	3	1	7	...	...
359	„ burying corpses in unregistered Burial Grounds ...	3	...	1	2	...	...
362	„ „ „ „	1	1	...	...	...	...
367	„ burying a corpse within 6 feet from the surface of the ground ...	2	2	...	...	...	...
407	„ for molesting Municipal servants in the execution of their duty ...	2	1	1	...	...	...
Bye-Laws ...	.....	209	95	91	19	1	3
	Total...	984	405	367	181	2	29

PUBLIC WORKS AND CONSERVANCY DEPARTMENT.

TABLE No. 29.

Table shewing the Revenue collected by the Public Works and Conservancy Department from different sources.

	RS.	A.	P.	RS.	A.	P.
Public Markets	7,246	15	11			
Slaughter Houses.	7,736	4	6			
				14,983	4	5
Rent of Municipal Lands and Buildings	4,025	4	9			
Sale of Rubbish and Night Soil	4,545	9	0			
Do. Hay and Grass from Sewage Farm in D'Mellow's Road	2,909	3	7			
Do. do. Triplicane	1,860	11	5			
Do. do. Kistnampett	3,968	4	6			
Do. do. Egmore	31	1	0			
Do. of Public Lands	2,474	13	7			
Revenue from Municipal Cart-stands	1,590	0	0			
Grazing and Avenues	884	13	0			
Licences for Markets, Depôts, dangerous and offensive Trades, &c.	8,805	12	0			
Sale of old stores	893	6	10			
Tools and Plant	46	1	9			
Electric Light	1,110	8	0			
Water Works Sundries...	0	9	6			
Water-supply	992	5	0			
Services rendered to individuals	26,010	14	11			
				60,149	6	10
	Total Rs...			75,132	11	3

TABLE No. 30.

Statement shewing the number of Permits granted under various sections of the Act in 1880.

Sections of Act V. of 1878.		No. of Permits granted.	REMARKS.
234	Laying out new streets ...	2	
256	Erecting pandals, verandahs, roofs, &c., of inflammable materials	397	
257	Erecting or restoring buildings	262	
262	Erecting ranges of huts in Parcherries	8	
280	Erecting verandahs, sunshades, &c., to project over the streets	11	
281	Erecting temporary pandals..	1,145	
	Total...	1,825	

Statement shewing the number and description of buildings within the City of Madras numbered for Census purposes.

Division.	Ward.	Tiled or Terraced Houses.	Huts.	Shops.	Temples, Churches and Mosques.	Clubs, Hotels and Choultries.	Schools.	Markets.	Tombs, Cemeteries and Burial Grounds.	Cart Stands and Cattle Depôts.	Separate Stables and Out-houses.	Brick Fields and Timber Depôts.	Famine Orphanages.	Hospitals, Jails, Barrack Lines and Lunatic Asylums.	Railway Stations and Salt Depôts.	Parks.	Factories.	Light-houses.	Batteries.	Total.
1	East ...	1,334	2,243	289	25	...	2	2	2	...	19	8	..	...	1	...	2	...	...	3,927
	Centre ...	2,296	2,366	295	61	5	8	4	5	...	20	...	...	1	...	...	...	...	...	5,061
	West ...	1,040	1,350	237	50	4	5	3	1	1	25	...	...	1	3	...	5	...	...	2,725
2	North ...	2,904	115	475	30	1	14	1	...	2	160	...	...	1	...	...	1	...	...	3,704
	Centre ...	2,389	268	541	27	2	10	1	...	2	247	...	...	...	...	...	1	...	...	3,488
	South ...	1,843	1	1,300	34	...	6	1	...	1	183	...	...	1	1	...	...	...	..	3,371
3	North ...	3,025	278	1,398	49	9	18	2	2	...	257	...	...	1	...	...	...	...	...	5,039
	Centre ...	1,569	54	479	22	3	11	...	...	...	137	...	...	2	...	...	...	...	...	2,277
	South ...	512	3	419	9	1	10	1	...	..	53	...	...	...	...	...	...	1	2	1,011
4	.....	950	626	242	35	...	5	1	...	1	...	...	...	1	4	...	5	...	..	1,870
5	North ...	2,450	411	241	47	1	8	2	3	...	15	...	...	2	...	...	1	...	...	3,181
	Centre ...	2,311	465	646	43	9	22	3	...	2	94	...	...	...	...	1	...	...	...	3,596
	South ...	1,520	92	126	30	2	7	2	...	1	8	..	...	3	1	...	...	...	...	1,792
6	North ...	613	567	53	20	...	2	...	2	...	1	1	...	1	...	...	...	...	...	1,260
	South ...	1,051	140	74	23	8	6	1	1	1	7	...	1	...	...	...	...	...	...	1,313
7	North ...	2,091	134	452	24	1	8	3	...	2	48	...	...	...	...	...	...	...	...	2,763
	Centre ...	4,253	87	1,013	35	3	8	3	2	...	26	...	...	...	...	...	...	...	...	5,430
	South ...	3,075	249	244	27	13	17	2	3	2	56	...	...	1	...	...	...	...	...	3,689
8	North ...	2,569	592	396	89	2	4	4	1	3	1	...	...	...	...	...	...	...	...	3,661
	South ...	1,549	546	64	38	...	9	1	...	1	19	...	1	...	...	...	...	...	...	2,228
	Total.	39,344	10,537	8,984	718	64	180	37	22	19	1,376	9	2	15	10	1	15	1	2	61,386*

* This is exclusive of the sub-numbers of Regimental Lines, &c., &c.

APPENDIX V.

VITAL STATISTICS.

Tables I to IX relate to Births.
" X to XXX " Deaths.
" XXXI A combination of the above two.

BIRTHS.

During the year 1880, 16,077 births were registered of which 15,679 were born-alive and 398 were still-born. The following table distributes the above figures among the different races.

Caste.	Born-alive.			Still-born.			Total.		
	M.	F.	Total.	M.	F.	Total.	M.	F.	Total.
Europeans	77	61	138	3	1	4	80	62	142
East Indians	218	219	437	2	8	10	220	227	447
Native Christians	378	350	728	6	7	13	384	357	741
Hindus	6,503	6,223	12,726	174	141	315	6,677	6,364	13,041
Mahomedans	843	807	1,650	29	27	56	872	834	1,706
Total...	8,019	7,660	15,679	214	184	398	8,233	7,844	16,077

The proportions which these totals bear to the total number born are :—

	Males.	Females.	Total.
Born-alive ...	49·88	47·64	97·52
Still-born ...	1·33	1·15	2·48
Total...	51·21	48·79	100·00

As usual the male births preponderate over the female by 359 born-alive and 30 still-born or by a total of 389.

Contrasted with the previous year there is a deficit of 552 births in the totals and an excess of 30 amongst the still-born; but, however, the births do not fall short of the average of the ten previous years as will be seen from below :—

1870.....	5,799
1871.....	8,535
1872.....	8,166
1873.....	9,382
1874.....	11,153
1875.....	10,433
1876.....	11,823
1877.....	14,384
1878.....	15,104
1879.....	16,629
	111,408
Average...	11,140
1880 ...	16,077

The public hospitals have been more resorted to for confinements than heretofore as will be evidenced by results hereunder given :—

	1880.	1879.
The Government Lying-in Hospital. ...	1,402	1,363
Ramasawmy Mudaliyar's ,, ...	262	...
Detail Hospital ,, ...	12	24
Penitentiary ,, ...	3	2
Hospital for Women and Children ...	...	2
...	1,679	1,391

The population by the recent census was 406,117 against 397,552 by the census of 1871. The number of births was 39·6 per mille of the population by recent census.

DEATHS.

The year under report was less healthy than 1879. The deaths numbered 14,907 exceeding those of the previous year by 1,104, and the average of the 10 previous years by 685. The cause of the rise being attributable to Measles, Fevers, Bowel Complaints and Other Diseases, which can be seen clearly by a reference to Table XI.

Although the number of deaths from Small-pox was less than the previous year by 41 still it did not diminish during the latter half of the year as it generally does.

Measles proved fatal to an unusual number during this year—105. The deaths from this cause during 1879 were 10 and the average of the ten previous years was 18.

Strictly speaking there were no deaths from Cholera as the two cases reported to have occurred in Peddoonaickspettah, 2nd Division, on the 24th May and 6th July were in reality the result of Diarrhœa arising from indigestion.

Arranging months according to salubrity they stand thus :—

Months.	*Deaths.*	*Months.*	*Deaths.*
June ...	1,069	April ...	1,224
July	1,122	August ...	1,227
October ...	1,167	February ...	1,301
September ...	1,168	March ...	1,321
May	1,185	December ...	1,426
November ...	1,202	January ...	1,495

The deaths among the several classes from the main causes were :—

Population.	3,613.		12,013.		21,441.		309,521.		50,964.		397,552.	
Caste.	Europeans.		East Indians.		Native Christians.		Hindus.		Mahomedans.		Total.	
Diseases.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Small-pox...	...	...	13	10	5	5	347	367	65	57	430	439
Measles	...	...	...	...	...	1	47	48	5	4	52	53
Fevers	9	3	10	21	54	80	1,513	1,534	160	165	1,746	1,803
Dysentery	2	1	20	12	50	49	620	594	95	73	787	729
Diarrhœa...	6	2	16	12	12	13	308	303	24	37	366	367
Cholera	...	...	...	...	...	...	1	1	...	...	1	1
Injuries	2	...	3	1	1	..	51	55	5	5	62	61
Other Diseases.	60	17	120	119	129	156	3,257	3,089	522	541	4,088	3,922
Total...	79	23	182	175	251	304	6,144	5,991	876	882	7,532	7,375
Total of Males & Females.	102		357		555		12,135		1,758		14,907	
Ratio per 1,000 of population	28·2		29·7		25·8		39·2		34·4		37·4	

The population by the recent census is known to be 406,117, and the death-rate per mille on this is 36·7.

Infantile mortality among children under 12 years of age was on the increase. It was in excess of a moiety of the deaths—the number being 8,081.

The percentages of deaths of all ages are :—

	No. of deaths.	Percentage.
Still-born	398	2·67
Under 1 year	4,770	32·00
1 to 6 ,,	2,469	16·56
6 ,, 12 ,,	444	2·98
12 ,, 20 ,,	668	4·48
20 ,, 30 ,,	1,098	7·37
30 ,, 40 ,,	1,046	7·02
40 ,, 50 ,,	902	6·05
50 ,, 60 ,,	1,254	8·41
Above 60 ,,	1,858	12·46

Of the 1,858 deaths of persons exceeding 60 years, the details of the ages are :—

Ages.	Europeans.		East Indians.		Native Christians.		Hindus.		Mahomedans.		Total.		Total of Males and Females.
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
60 to 70	9	1	15	12	24	19	236	187	41	34	325	253	578
70 to 80	...	4	7	2	15	19	192	208	47	50	261	283	544
80 to 90	...	...	2	3	4	9	184	280	14	21	204	313	517
90 to 94	...	...	1	...	...	...	44	27	...	2	45	99	144
95	...	...	...	2	1	1	11	25	3	2	15	30	45
96	...	...	...	...	...	...	...	...	1	...	1	...	1
97	...	...	...	...	...	...	1	1	...	...	1	1	2
98	...	...	...	...	...	...	2	2	1	1	3	3	6
99	1	...	...	...	1	...	4	11	1	3	7	14	21
Total...	10	5	25	19	45	48	674	811	108	113	862	996	1,858
Total of Males and Females	15		44		93		1,485		221		1,858		

The Divisions of the City may be ranked thus for their healthfulness :—

Divisions.	Population.	Mortality.	Ratio per 1,000.
VI ...	19,390	334	17·2
V ...	65,491	2,095	31·9
VIII ...	41,482	1,410	33·9
III ...	52,545	1,812	34·4
I ...	65,121	2,389	36·6
IV ...	9,791	369	37·6
II ...	73,738	2,863	38·8
VII ...	69,568	2,747	39·4

APPENDIX V.

VITAL STATISTICS.

TABLE I.—BIRTHS.

Return of Births among all Classes arranged according to months, for the year 1880.

	BORN-ALIVE.													STILL-BORN.												TOTAL BIRTHS.		
Population.	3,613		12,013		21,441		309,521		50,964		397,552		Total of Males and Females.	3,613		12,013		21,441		309,521		50,964		397,552		Total of Males and Females.	Males.	Females.	Males and Females.
	Europeans.		East Indians.		Native Christians.		Hindus.		Mahomedans.		Total.			Europeans.		East Indians.		Native Christians.		Hindus.		Mahomedans.		Total.					
Months.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.				
January 1880	5	2	21	19	31	25	586	546	76	65	719	657	1,376	...	..	..	...	2	...	16	11	2	1	20	12	32	739	669	1,408
February "	8	2	14	15	27	28	481	433	70	76	600	554	1,154	1	...	...	...	...	...	5	7	2	2	8	9	16	608	563	1,171
March "	5	3	16	12	29	28	494	480	78	71	622	594	1,216	...	...	...	...	...	...	13	5	3	2	16	7	23	638	601	1,239
April "	7	3	23	12	34	17	477	448	75	68	616	548	1,164	1	...	...	1	2	...	10	8	1	2	14	11	25	630	559	1,189
May "	5	2	15	23	23	30	522	489	75	64	640	608	1,248	...	...	...	...	1	2	12	10	4	2	17	14	31	657	622	1,279
June "	4	9	17	20	28	37	547	478	76	71	672	615	1,287	...	...	1	1	...	1	17	12	3	1	21	15	36	693	630	1,323
July "	7	6	16	19	31	31	571	527	73	71	698	654	1,352	...	...	...	...	...	2	11	12	3	5	14	19	33	712	673	1,385
August "	2	2	20	23	41	31	557	592	66	63	686	711	1,397	...	...	...	1	...	1	14	10	3	1	17	13	30	703	724	1,427
September "	8	10	27	19	33	36	531	567	56	55	655	687	1,342	...	...	1	2	...	...	21	18	1	3	23	23	46	678	710	1,388
October "	13	3	17	18	33	30	588	595	59	60	710	706	1,416	1	1	...	2	..	..	15	14	2	4	18	21	39	728	727	1,455
November "	6	10	10	15	38	31	604	540	67	74	725	670	1,395	...	...	...	1	...	...	16	14	4	3	20	18	38	745	688	1,433
December "	7	9	22	24	30	26	545	528	72	69	676	656	1,332	...	...	...	...	1	1	24	20	1	1	26	22	48	702	678	1,380
Total...	77	61	218	219	378	350	6,503	6,223	843	807	8,019	7,660	15,679	3	1	2	8	6	7	174	141	29	27	214	184	398	8,233	7,844	16,077
Total of Males and Females..	138		437		728		12,726		1,650		15,679		...	4		10		13		315		56		398		...	16,077		...
Ratio per 1,000 of population.	21·5		37·3		33·9		41·1		32·3		39·4		...	1·1		0·8		0·6		1·0		1·0		1·0		..	40·4		...

Return shewing the average Births in Madras for 10 previous years ending 1879 as contrasted with the Births of the year 1880.

—	Born-alive.											Still-born.											Total Births.			Order of precedence according to number of Births.
	Europeans.		East Indians.		Native Christians and Hindus.		Mahomedans.		Total.		Total of Males and Females.	Europeans.		East Indians.		Native Christians and Hindus.		Mahomedans.		Total.		Total of Males and Females.	Males.	Females.	Males and Females.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.					
1870	53	71	216	185	2,398	2,153	239	249	2,956	2,658	5,614	2	2	8	4	89	65	8	7	107	78	185	3,063	2,736	5,799	11
1871	56	44	177	225	3,874	3,230	414	322	4,521	3,821	8,342	...	...	2	5	89	63	17	17	108	85	193	4,629	3,906	8,535	9
1872	43	38	205	185	3,761	3,113	363	278	4,372	3,614	7,986	...	1	4	1	76	65	16	17	96	84	180	4,468	3,698	8,166	10
1873	39	35	180	169	4,317	3,742	377	306	4,913	4,252	9,165	1	...	4	4	104	76	14	14	123	94	217	5,036	4,346	9,382	8
1874	43	45	174	173	4,934	4,366	581	510	5,732	5,094	10,826	3	3	5	5	141	103	38	29	187	140	327	5,919	5,234	11,153	6
1875	47	43	138	159	4,509	4,054	575	514	5,319	4,770	10,089	2	2	8	4	146	122	38	22	194	150	344	5,513	4,920	10,433	7
1876	53	70	171	175	5,271	4,645	514	490	6,009	5,380	11,389	1	4	8	7	199	147	33	35	241	193	434	6,250	5,573	11,823	5
1877	43	41	159	172	6,794	5,730	598	513	7,594	6,456	14,050	6	5	6	8	135	135	22	17	169	165	334	7,763	6,621	14,384	4
1878	55	41	169	150	6,788	6,235	695	630	7,707	7,056	14,763	3	2	4	1	142	143	22	24	171	170	341	7,878	7,226	15,104	3
1879	63	71	216	174	7,441	6,572	897	827	8,617	7,644	16,261	2	1	5	5	162	144	27	22	196	172	368	8,813	7,816	16,629	1
Total... ...	495	499	1,855	1,767	50,087	43,840	5,303	4,639	57,740	50,745	108,485	20	20	54	44	1,283	1,063	235	204	1,592	1,331	2,923	59,332	52,076	111,408	...
Average... ...	49·5	49·9	185·5	176·7	5008·7	4384·0	530·3	463·9	5774·0	5074·5	10848·5	2·0	2·0	5·4	4·4	128·3	106·3	23·5	20·4	159·2	133·1	292·3	5933·2	5207·6	11140·8	...
1880	77	61	218	219	6,881	6,573	843	807	8,019	7,660	15,679	3	1	2	8	180	148	29	27	214	184	398	8,233	7,844	16,077	2
Increase... ...	27·5	11·1	32·5	42·3	1872·3	2189·0	312·7	343·1	2245·0	2585·5	4830·5	1·0	...	...	3·6	51·7	41·7	5·5	6·6	54·8	50·9	105·7	2299·8	2636·4	4936·2	...
Decrease ...	...	...	...	...	...	...	...	...	...	...	...	...	1·0	3·4	...	...	...	...	...	...	...	...	..	...	...	...

APPENDIX V.

VITAL STATISTICS.

TABLE III.—BIRTHS.

Return of Births among Europeans in each Village of the City of Madras, for the year 1880, arranged according to Months.

Municipal Divisions.	Names of Villages.	EUROPEANS. Jan. Born Alive.	Jan. Still Born.	Feb. Born Alive.	Feb. Still Born.	Mar. Born Alive.	Mar. Still Born.	Apl. Born Alive	Apl. Still Born.	May Born Alive.	May Still Born.	June Born Alive.	June Still Born.	July Born Alive.	July Still Born.	Aug. Born Alive.	Aug. Still Born.	Sep. Born Alive.	Sep. Still Born.	Oct. Born Alive.	Oct. Still Born.	Nov. Born Alive.	Nov. Still Born.	Dec. Born Alive.	Dec. Still Born.	Total. Born Alive.	Total. Still Born.	Total Births.
1	Tondiarpettah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Washermenpettah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Royapuram ...	...	...	2	1	2	...	1	...	...	...	...	...	1	...	...	...	1	...	3	...	1	...	2	...	13	1	14
	Cashmode ...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	1
	Total...	...	...	2	1	2	...	1	...	...	...	...	...	2	...	...	...	1	...	3	..	1	...	2	...	14	1	15
2	Peddoo Naick's Pettah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...	1	...	3	...	3
	Big Parcherry ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	John Pereira's Garden ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...	1	...	3	...	3
3	Moothealpettah ...	3	...	2	...	2	...	2	...	2	...	1	...	1	...	1	...	2	...	3	1	2	...	2	...	23	1	24
	Uttapaulium ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Fort St. George ...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	1
	Total...	3	..	2	...	2	...	2	...	2	...	1	...	1	...	1	...	3	...	3	1	2	...	2	...	24	1	25
4	Gunpowder Mills...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Perambore ...	1	...	...	...	1	...	...	...	1	...	1	...	2	...	...	...	...	...	...	..	1	...	...	...	7	...	7
	Viasarapandy ...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
	Total...	1	...	...	...	1	...	1	...	1	...	1	...	2	...	...	...	...	...	...	...	1	...	...	...	8	...	8
5	Choolay	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Pursewalkum ...	...	...	2	...	...	...	1	...	1	...	1	...	1	...	...	...	2	...	...	...	...	...	1	..	9	...	9
	Pareamettoo ...	1	...	1	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	..	5	...	5
	New Town ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Vepery	...	...	...	...	...	...	1	...	1	...	3	...	1	...	1	...	1	..	2	1	2	...	...	...	12	1	13
	Poodoopettah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Egmore ...	...	...	1	...	1	...	1	...	...	...	1	...	2	...	...	...	1	...	...	...	2	...	1	...	10	...	10
	Comaleeswarapuram ..	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	..	...	...	...	...
	Total...	1	...	4	...	2	..	4	...	2	...	5	...	4	...	1	...	4	...	2	1	4	...	3	...	36	1	37
6	Kilpaukum ...	...	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	1	...	..	...	1	...	4	...	4
	Chetput ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Nungumbakum ...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	2	...	1	...	1	...	5	...	5
	Mackey's Garden...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	...	...	...	...	..	...	...	...	1	...	...	...	2	...	...	...	...	...	3	...	1	.	2	..	9	..	9
7	Poodoopaukum ...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1	...	2	...	2
	Chintadripettah ...	...	...	...	...	...	..	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...	2	...	4	...	4
	Narasingapuram ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Triplicane	2	...	...	...	..	..	...	...	...	...	...	...	1	..	...	...	...	...	...	...	1	...	...	...	4	...	4
	Theroovateeswaranpettah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	2	...	...	..	...	...	..	...	1	...	...	...	1	...	...	...	2	...	...	...	1	...	3	...	10	...	10
8	Saint Thome ...	...	...	...	...	...	...	2	...	...	...	2	...	...	...	...	...	..	...	1	...	...	...	1	...	6	...	6
	Alwarpettah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Royapettah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Meersaib's Pettah	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kistnampettah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Thanampettah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	...	...	...	...	...	...	2	...	...	...	2	...	...	...	...	...	...	...	1	...	...	...	1	...	6	..	6
	General Total...	7	...	8	1	7	...	10	...	7	...	9	...	12	...	2	...	11	...	12	2	11	...	14	..	110	3	113
Births from Hospitals.	Monegar Choultry Hospital*...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	General Hospital ...	...	...	1	...	...	...	...	...	...	...	3	...	...	...	1	...	2	...	3	...	1	...	1	...	12	...	12
	Lock Hospital ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hospital for Women & Children ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lying-in Hospital ...	...	...	1	...	1	...	...	1	...	..	1	...	1	...	1	...	5	...	1	...	4	...	1	...	16	1	17
	Penitentiary Hospital ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lunatic Asylum ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Royapettah Hospital ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	...	...	2	...	1	...	...	1	...	...	4	...	1	...	2	...	7	...	4	...	5	...	2	...	28	1	12
	General Total...	7	...	10	1	8	...	10	1	7	...	13	...	13	...	4	...	18	...	16	2	16	...	16	...	138	4	142

* Including Ramasawmy Mudaliyar's Lying-in Hospital.

VITAL STATISTICS.

TABLE IV.—BIRTHS.

Return of Births among East Indians in each Village of the City of Madras, for the year 1880, arranged according to Months.

Municipal Divisions.	Names of Villages.	East Indians.																										Total Births.
		Jan.		Feb.		Mar.		Apl.		May		June		July		Aug.		Sep.		Oct.		Nov.		Dec.		Total.		
		Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	
1	Tondiarpettah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Washermenpettah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Royapuram	2	...	1	...	1	...	1	...	1	...	1	...	4	..	3	...	5	...	1	...	2	1	3	...	25	1	26
	Cashmode	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	..
	Total	2	...	1	..	1	...	1	...	1	...	1	...	4	...	3	...	5	...	1	...	2	1	3	...	25	1	26
2	Peddoo Naick's Pettah	7	...	4	...	5	...	1	...	4	...	5	...	3	...	4	...	3	...	3	...	3	...	5	...	47	...	47
	Big Parcherry	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	John Pereira's Garden	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total	7	...	4	...	5	...	1	...	4	...	5	...	3	...	4	...	3	...	3	...	3	...	5	...	47	...	47
3	Moothealpettah	5	...	3	...	3	...	5	1	10	...	9	...	5	...	10	1	8	...	8	1	4	...	9	...	79	3	82
	Uttapaulium	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Fort St. George	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total	5	...	3	...	3	...	5	1	10	...	9	...	5	...	10	1	8	...	8	1	4	...	9	...	79	3	82
4	Gunpowder Mills	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Perambore	1	...	2	...	...	...	2	...	1	...	...	...	1	...	...	...	1	...	2	...	1	...	1	...	12	...	12
	Viasarapandy	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total	1	...	2	...	...	...	2	..	1	...	...	...	1	...	...	...	1	...	2	...	1	...	1	...	12	...	12
5	Choolay	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...
	Pursewalkum	5	...	2	...	1	...	2	...	3	...	1	...	3	...	4	...	4	...	2	...	...	...	4	...	31	...	31
	Pareamettoo	2	...	1	...	1	...	3	...	1	...	4	...	3	...	2	...	3	...	2	...	2	...	3	...	27	...	27
	New Town	...	...	...	...	1	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	1	...	4	...	4
	Vepery	1	...	...	...	3	...	3	...	3	...	1	1	2	..	...	...	5	1	5	...	2	...	5	...	30	2	32
	Poodoopettah	1	...	1	...	1	...	1	...	...	...	1	...	..	...	...	...	...	...	1	...	3	...	1	...	10	...	10
	Egmore	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	1	...	4	...	4
	Comaleeswarapuram	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
	Total	9	...	4	...	7	...	10	...	7	...	9	1	8	...	8	...	12	1	11	...	7	...	15	...	107	2	109
6	Kilpaukum	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chetput	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Nungumbakum	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	2
	Mackey's Garden	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	2	...	2
7	Poodoopaukum	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chintadripettah	1	...	...	...	...	...	...	..	...	...	...	...	2	...	...	...	...	...	...	...	...	...	1	...	4	..	4
	Narasingapuram	1	...	1	...	...	...	...	...	2	...	2	...	...	...	1	...	...	...	1	...	...	...	...	...	8	...	8
	Triplicane	...	...	1	...	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	4	...	4
	Theroovateeswaranpettah	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	..	1
	Total	2	...	3	...	1	...	...	...	2	...	2	...	2	...	2	...	...	...	1	...	...	...	2	...	17	...	17
8	Saint Thomé	2	...	...	...	...	...	1	...	1	...	2	...	2	...	2	...	1	...	1	...	...	..	...	...	12	...	12
	Alwarpettah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Royapettah	2	...	4	...	2	...	...	...	...	...	1	...	...	...	...	...	2	...	...	...	1	...	2	...	14	...	14
	Meersaib's Pettah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	..	1
	Kistnampettah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Thanampettah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	1
	Total	4	...	4	...	2	...	1	...	1	...	3	...	2	...	4	...	3	...	1	...	1	...	2	...	28	..	28
	General Total	30	..	21	...	19	..	22	1	26	...	29	1	25	...	31	1	32	1	27	1	18	1	37	...	317	6	323
Births from Hospitals.	Monegar Choultry Hospital	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	..	1	...	1
	General Hospital	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lock Hospital	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hospital for Women & Children	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lying-in Hospital	10	...	8	...	9	...	13	..	12	...	8	1	9	...	12	...	14	2	8	1	7	...	9	...	119	4	121
	Penitentiary Hospital	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lunatic Asylum	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Royapettah Hospital	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total	10	...	8	...	9	...	13	...	12	...	8	1	10	...	12	...	14	...	8	1	7	...	9	..	120	4	124
	General Total	40	...	29	...	28	...	35	1	38	...	37	2	35	2	43	1	43	3	35	2	25	1	46	...	437	10	447

APPENDIX V.

VITAL STATISTICS.

TABLE V.—BIRTHS.

Return of Births among Native Christians in each Village of the City of Madras, for the year 1880, arranged according to Months.

Municipal Divisions.	Names of Villages.	Native Christians. Jan. Born Alive.	Jan. Still Born.	Feb. Born Alive.	Feb. Still Born.	Mar. Born Alive.	Mar. Still Born.	Apl. Born Alive.	Apl. Still Born.	May Born Alive.	May Still Born.	June Born Alive.	June Still Born.	July Born Alive.	July Still Born.	Aug. Born Alive.	Aug. Still Born.	Sep. Born Alive.	Sep. Still Born.	Oct. Born Alive.	Oct. Still Born.	Nov. Born Alive.	Nov. Still Born.	Dec. Born Alive.	Dec. Still Born.	Total. Born Alive.	Total. Still Born.	Total Births.
1	Tondiarpettah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	1
	Washermenpettah	3	...	2	...	5	...	2	...	...	...	...	...	...	...	...	...	1	...	...	...	3	...	...	...	16	...	16
	Royapuram ...	10	...	12	...	6	...	4	...	3	...	11	...	14	...	11	...	13	...	6	...	6	...	11	...	107	...	107
	Cashmode ...	6	...	3	...	3	...	5	...	2	...	2	...	3	...	5	...	2	...	7	...	6	...	4	...	48	...	48
	Total...	19	...	17	...	14	...	11	...	5	...	13	...	17	...	16	...	16	...	13	...	15	...	16	...	172	...	172
2	Peddoo Naick's Pettah	...	...	1	...	2	...	2	...	3	...	2	...	2	...	4	...	3	...	2	...	...	...	2	...	23	...	23
	Big Parcherry ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	John Pereira's Garden	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	...	...	1	...	2	...	2	...	3	...	2	...	2	...	4	...	3	...	2	...	...	...	2	...	23	...	23
3	Moothealpettah ...	5	...	7	...	6	...	3	...	3	...	12	...	8	...	14	...	9	...	7	...	7	...	6	...	87	...	87
	Uttapaulium ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Fort St. George ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	5	...	7	...	6	...	3	...	3	...	12	...	8	...	14	...	9	...	7	...	7	...	6	...	87	...	87
4	Gunpowder Mills...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Perambore ...	...	...	2	...	1	...	1	...	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	6	...	6
	Viasarapaudy ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	...	...	2	...	1	...	1	...	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	6	...	6
5	Choolay ...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	2	...	2
	Pursewalkum ...	7	...	...	...	3	...	4	...	3	1	2	...	1	...	4	...	2	...	8	...	3	...	1	...	38	1	39
	Pareamettoo ...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	1	2	...	1	...	1	...	1	...	7	1	8
	New Town ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Vepery ...	2	...	...	...	1	...	...	...	1	...	2	...	...	...	...	...	2	...	...	...	1	...	...	...	9	...	9
	Poodoopettah ...	2	...	6	...	2	...	3	...	3	1	2	...	2	...	3	...	3	...	6	...	2	...	2	...	36	1	37
	Egmore	1	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	...	...	...	6	...	6
	Comaleeswarapuram	1	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	...	3
	Total...	13	...	7	...	8	...	9	...	8	2	7	...	3	...	7	1	10	...	15	...	10	...	4	...	101	3	104
6	Kilpaukum ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	2	...	3	...	3
	Chetput	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...	1
	Nungumbakum ...	...	...	1	...	2	...	4	...	1	...	2	...	1	...	...	...	...	...	2	...	2	...	2	...	17	...	17
	Mackey's Garden...	1	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	1	...	1	...	1	...	...	...	6	...	6
	Total...	1	...	1	...	2	...	5	...	1	...	3	...	1	...	...	...	2	...	3	...	4	...	4	...	27	...	27
7	Poodoopaukum ...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	1	...	...	...	...	...	2	...	...	...	5	...	5
	Chintadripettah ...	1	...	2	...	2	...	1	...	1	...	1	...	...	...	...	...	1	...	2	...	...	...	1	...	12	...	12
	Narasingapuram ...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	2	...	2
	Triplicane ...	...	...	...	...	...	...	...	...	2	...	1	...	1	...	1	...	...	...	...	...	...	...	1	1	6	1	7
	Theroovateeswaranpettah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	2	...	2	...	2	...	1	...	3	...	2	...	3	...	2	...	2	...	2	...	2	...	2	1	25	1	26
8	Saint Thomé ...	6	1	3	...	3	...	3	...	3	...	2	...	4	...	5	...	9	...	6	...	7	...	5	...	56	1	57
	Alwarpettah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Royapettah ...	1	...	4	...	...	...	3	...	4	...	2	...	4	...	3	...	2	...	...	...	1	...	...	...	24	...	24
	Meersaib's Pettah	1	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	3	...	3
	Kistnampettah ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..
	Thanampettah ...	2	...	2	...	2	...	1	...	3	...	2	...	1	...	...	...	3	...	1	..	3	...	...	...	20	...	20
	Total...	10	1	9	...	5	...	8	...	10	...	7	...	9	...	8	...	14	...	7	...	11	...	5	...	103	1	104
	General Total...	50	1	46	...	40	...	40	...	34	2	46	...	43	...	52	1	56	...	49	..	49	...	39	1	544	5	549
Births from Hospitals.	Monegar Choultry Hospital ...	...	...	...	...	...	...	...	...	1	...	7	...	9	...	7	...	7	...	5	...	7	...	6	1	49	1	50
	General Hospital ...	...	...	...	...	...	...	...	...	...	..	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lock Hospital ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...
	Hospital for Women & Children	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lying-in Hospital ...	6	1	9	...	17	...	11	2	18	1	12	1	10	2	13	...	6	...	9	...	13	...	11	...	135	7	142
	Penitentiary Hospital ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lunatic Asylum ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Royapettah Hospital ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	6	1	9	...	17	...	11	2	19	1	19	1	19	2	20	...	13	...	14	...	20	...	17	1	184	8	192
	General Total...	56	2	55	...	57	..	51	2	53	3	65	1	62	2	72	1	69	...	63	...	69	...	56	2	728	13	741

APPENDIX V.

VITAL STATISTICS.

TABLE VI.—BIRTHS.

Return of Births among Hindus in each Village of the City of Madras, for the year 1880, arranged according to Months.

Municipal Divisions.	Names of Villages.	HINDUS.																										
		Jan.		Feb.		Mar.		Apl.		May.		June.		July.		Aug.		Sept.		Oct.		Nov.		Dec.		Total.		Total Births.
		Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	
1	Tondiarpettah...	22	..	9	..	2	..	25	..	15	..	15	..	11	..	15	..	11	..	21	..	18	...	13	...	177	..	177
1	Washermenpettah	140	3	85	..	97	1	79	1	106	2	96	1	110	6	121	1	109	3	125	3	117	3	117	..	1,302	24	1,326
1	Royapuram ..	71	2	41	..	44	1	34	..	61	..	37	2	59	1	46	..	59	..	40	...	45	2	58	2	595	10	605
1	Cashmode.. ..	33	1	19	..	30	..	27	..	15	..	29	..	35	..	29	..	22	..	17	..	37	1	25	...	318	2	320
	Total..	266	6	154	..	173	2	165	1	197	2	177	3	215	7	211	1	201	3	203	3	217	6	213	2	2,392	36	2,428
2	Peddoo Naick's Pettah	172	3	154	2	188	2	165	2	193	..	207	4	181	4	221	9	200	9	212	10	195	3	179	10	2,267	58	2,325
2	Big Parcherry..	..	..	..	..	..	..	..	..	...	..	..	..	..	..	..	..	..	..	...	..	...	...	..	...	..	..	..
2	John Pereira's Garden	..	..	..	..	..	..	..	..	...	..	..	..	..	...	..	..	..	..	...	..	...	...	...	...	..	..	..
	Total..	172	3	154	2	188	2	165	2	193	..	207	4	181		221	9	200	9	212	10	195	3	179	10	2,267	58	2,325
3	Moothealpettah	110	2	95	1	91	..	101	5	126	1	122	3	122	4	135	5	120	7	126	3	129	3	115	4	1,392	38	1,430
3	Uttapaulium ..	..	..	...	..	..	..	..	..	...	..	..	..	...	..	..	..	..	..	...	..	...	...	...	...	..	..	...
3	Fort St. George	..	..	..	..	..	..	..	..	...	..	..	..	...	..	..	..	..	..	...	..	...	...	...	...	..	..	...
	Total..	110	2	95	1	91	..	101	5	126	1	122	3	122	4	135	5	120	7	126	3	129	3	115	4	1,392	38	1,430
4	Gunpowder Mills	2	..	...	..	..	..	..	..	1	..	..	..	...	..	..	..	..	..	...	..	...	...	...	...	3	...	3
4	Perambore ..	14	..	12	1	25	..	16	1	12	1	15	2	13	2	16	1	17	1	11	..	18	2	15	3	184	14	198
4	Viasarapaudy ..	10	1	4	..	5	..	13	..	10	...	11	1	10	..	9	..	4	..	11	..	6	...	...	...	98	2	95
	Total..	26	1	16	1	30	..	29	1	23	1	26	3	23	2	25	4	21	1	22	..	24	2	15	3	280	16	296
5	Choolay	27	1	38	1	33	1	25	1	39	..	29	..	36	1	37	3	39	4	34	1	50	2	37	2	424	17	441
5	Pursewalkum ..	68	2	57	..	54	2	56	..	39	1	54	2	63	..	63	1	58	1	72	..	61	..	59	3	704	12	716
5	Pareamettoo ..	13	..	6	..	14	..	17	..	17	..	19	1	7	..	19	1	14	..	14	...	9	..	14	2	163	4	167
5	New Town ..	..	..	..	..	..	..	..	..	..	..	..	..	...	..	..	..	1	..	...	..	...	...	..	..	1	...	1
5	Vepery	4	1	2	..	2	..	3	..	2	..	1	..	2	..	5	..	7	..	3	..	5	...	3	..	39	1	40
5	Poodoopettah ..	14	..	12	..	9	..	12	..	5	..	6	..	9	..	14	1	13	..	7	..	17	...	11	1	129	2	131
5	Egmore	10	..	20	..	16	..	14	..	15	..	13	1	13	2	7	..	11	..	4	..	15	...	10	..	148	3	151
5	Comaleeswarapuram	15	..	11	..	6	..	10	..	12	..	8	..	12	..	9	1	14	..	23	1	21	...	4	..	145	2	147
	Total...	151	4	146	1	134	3	137	1	129	1	130	4	142	3	154	7	157	5	157	2	178	2	138	8	1,753	41	1,794
6	Kilpauk ...	9	..	10	..	13	1	9	1	6	1	4	..	10	..	3	..	7	..	6	..	2	...	4	..	83	3	86
6	Chetput... ...	16	..	13	..	21	..	10	..	11	..	12	..	11	..	9	..	6	1	11	..	7	...	9	..	136	1	137
6	Nungumbakum	40	..	31	1	26	..	29	..	26	..	21	2	14	..	24	..	13	..	13	..	14	...	13	..	264	3	267
6	Mackey's Garden	8	..	24	..	20	..	11	..	5	..	4	..	10	..	9	..	6	..	8	..	6	...	10	...	121	...	121
	Total..	73	..	78	1	80	1	59	1	48	1	41	2	45	..	45	..	32	1	38	..	29	...	36	..	604	7	611
7	Poodoopaukum.	13	..	20	1	15	..	7	..	19	...	19	..	32	..	24	..	20	1	21	..	19	1	22	2	231	5	236
7	Chintadripettah	65	..	35	..	35	..	33	..	41	..	36	1	40	1	48	..	45	1	53	...	44	1	43	2	518	6	524
7	Narasingapooram	4	..	2	..	1	..	1	..	4	..	4	1	5	..	..	..	2	..	7	...	1	..	5	..	36	1	37
7	Triplicane ..	55	..	39	..	62	1	57	..	69	..	53	2	70	..	65	..	67	1	70	3	67	2	69	3	743	12	755
7	Theroovateeswaranpettah..	8	..	12	..	6	..	11	..	3	1	8	..	7	1	12	..	9	1	10	...	10	...	10	..	106	3	109
	Total..	145	..	108	1	119	1	109	..	136	1	120	4	154	2	149	..	143	4	161	3	141	4	149	7	1,634	27	1,661
8	Saint Thomé ..	50	..	41	..	34	1	47	..	39	1	57	1	58	..	51	..	49	1	63	...	67	1	61	..	617	5	622
8	Alwarpettah ..	5	..	10	..	8	..	5	..	6	..	11	..	2	..	8	..	8	..	5	...	3	..	4	..	75	...	75
8	Royapettah ..	13	..	11	..	11	..	21	..	15	..	10	..	13	..	15	..	9	..	20	...	12	...	16	..	166	..	166
8	Meersaib's Pettah	3	...	8	..	11	..	10	..	4	..	6	..	5	..	10	..	4	..	6	...	5	...	5	..	77	...	77
8	Kistnampettah..	7	...	11	..	12	..	8	..	14	..	9	..	9	...	11	..	17	..	7	1	19	...	9	..	133	1	134
8	Thanampettah	13	...	13	1	10	..	5	..	10	..	12	..	14	..	12	..	12	..	12	...	6	...	13	..	132	1	133
	Total..	91	...	94	1	86	1	96	..	88	1	105	1	101	..	107	..	99	1	113	1	112	1	108	..	1,200	7	1,207
	General Total..	1,034	16	845	8	901	10	861	11	940	8	928	24	983	22	1,047	23	973	31	1,032	22	1,025	21	953	34	11,522	230	11,752
Births from Hospitals.	Monegar Choultry Hospital...	..	...	...	..	...	...	..	..	5	..	16	..	29	..	22	..	31	..	34	6	19	8	29	4	185	18	203
	Genl. Hospital...	..	...	...	..	...	...	..	..	..	..	...	..	...	..	..	..	..	..	..	...	...	...	.	...	...	...	..
	Lock Hospital...	...	...	...	...	...	...	...	...	..	..	...	..	...	..	..	..	..	..	..	...	...	...	...	...	...	...	..
	Hospital for Women and Children ...	...	...	...	...	...	...	...	...	..	..	...	..	...	...	..	..	..	..	..	...	...	...	...	...	...	...	..
	Lying-in Hospital	98	11	68	4	73	8	64	7	64	14	81	5	86	1	80	1	94	8	117	1	100	1	91	6	1,016	67	1,083
	Penitentiary Hospital ...	..	..	1	..	...	...	...	...	2	..	...	..	...	...	..	..	..	..	..	...	...	...	...	...	3	..	3
	Lunatic Asylum	..	...	...	...	...	...	...	...	...	...	...	..	...	...	..	..	...	..	..	...	...	...	...	...	..	..	...
	Royapettah Hospital ...	...	..	...	...	...	...	...	..	...	...	...	..	...	...	..	...	...	...	..	...	...	...	...	..	..	..	...
	Total..	98	11	69	4	73	8	64	7	71	14	97	5	115	1	102	1	125	8	151	7	119	9	120	10	1,204	85	1,289
	General Total..	1,132	27	914	12	974	18	925	18	1,011	22	1,025	29	1,098	23	1,149	24	1,098	39	1,183	29	1,144	30	1,073	44	12,726	315	13,041

APPENDIX V.

VITAL STATISTICS.

TABLE VII.—BIRTHS.

Return of Births among Mahomedans in each Village of the City of Madras, for the year 1880, arranged according to Months.

Municipal Divisions.	Names of Villages.	MAHOMEDANS.																										
		Jan.		Feb.		March.		April		May.		June.		July.		Aug.		Sept.		Oct		Nov.		Dec.		Total.		
		Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive	Still Born.	Born Alive	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Born Alive.	Still Born.	Total Births.
1	Tondiarpettah ...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	2	...	2
	Washermenpettah ...	6	...	3	...	14	...	5	...	2	...	6	...	6	1	4	...	2	...	5	...	5	..	3	...	61	1	62
	Royapuram ...	11	...	7	1	13	...	7	...	5	...	10	...	4	1	9	...	4	...	8	...	5	...	2	...	85	2	87
	Cashmode ...	7	...	5	...	5	...	4	...	3	...	4	...	8	1	3	..	2	...	5	..	4	...	6	...	56	1	57
	Total...	25	...	15	1	32	...	16	...	10	...	20	...	18	3	16	...	8	...	18	...	15	...	11	...	204	4	208
2	Peddoo Naick's Pettah	1	...	7	...	3	...	5	...	6	...	5	...	3	...	3	..	3	1	4	...	6	...	8	...	54	1	55
	Big Parcherry ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	John Pereira's Garden	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...
	Total...	1	...	7	...	3	...	5	...	6	...	5	...	3	...	3	...	3	1	4	...	6	...	8	...	54	1	55
3	Moothealpettah ...	24	...	33	1	26	2	28	...	21	1	30	...	28	1	32	1	25	1	29	1	30	1	31	...	337	9	346
	Uttapaulium ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Fort St. George ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	24	...	33	1	26	2	28	...	21	1	30	...	28	1	32	1	25	1	29	1	30	1	31	...	337	9	346
4	Gunpowder Mills ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Perambore ...	4	...	2	...	1	...	5	...	7	...	4	1	4	1	1	...	3	...	4	1	3	...	1	...	39	3	42
	Viasarapaudy ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total..	4	...	2	...	1	...	5	...	7	...	4	1	4	1	1	...	3	...	4	1	3	...	1	...	39	3	42
5	Choolay ...	1	...	...	...	1	...	4	...	1	...	1	...	...	1	1	...	2	...	...	...	2	...	3	...	16	1	17
	Pursewalkum ...	1	...	1	...	5	...	1	...	1	...	1	...	5	...	1	...	2	...	...	..	1	...	4	...	23	...	23
	Pareamettoo ...	2	...	1	..	2	...	...	...	...	...	1	.	3	...	1	...	2	...	1	...	1	...	6	...	20	...	20
	New Town ...	...	-	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Vepery ...	3	...	2	...	...	...	1	...	2	...	2	...	...	..	...	...	1	...	...	...	1	...	...	...	12	...	12
	Poodoopettah ...	1	...	3	...	...	...	1	...	2	...	...	...	...	...	...	...	1	...	...	...	2	...	4	...	14	...	14
	Egmore ...	...	...	...	...	...	...	. .	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	2	...	2
	Comaleeswarapuram	1	...	...	...	3	..	1	...	...	...	1	...	...	...	...	...	...	...	..	...	...	...	...	...	6	...	6
	Total...	9	...	7	...	11	..	8	...	7	..	6	...	9	1	3	...	8	...	1	...	7	...	17	...	93	1	94
6	Kilpaukum ...	...	...	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	2
	Chetput... ...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	2	...	2
	Nungumbakum ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Mackey's Garden ...	3	...	...	...	3	...	2	...	1	1	...	...	...	...	1	...	...	...	1	...	1	...	...	...	12	1	13
	Total...	3	..	1	...	3	...	2	...	2	1	...	...	1	...	2	...	...	...	1	...	1	...	...	...	16	1	17
7	Poodoopaukum ...	6	...	12	...	13	1	7	...	13	...	6	...	9	...	4	...	10	...	7	...	7	...	6	...	100	1	101
	Chintadripettah ...	...	...	1	...	2	...	1	...	...	...	1	...	1	...	3	...	1	...	2	...	1	...	...	...	13	...	13
	Narasingapuram ...	1	...	...	...	...	...	2	...	...	...	1	...	2	...	...	...	...	...	...	...	...	...	...	...	6	...	6
	Triplicane ...	38	1	36	1	37	1	43	1	44	2	48	2	40	2	41	2	30	...	34	3	44	3	40	..	475	18	493
	Theroovateeswaranpettah	5	1	6	...	5	...	11	...	9	...	8	...	7	...	6	..	2	...	5	...	7	1	5	2	76	4	80
	Total...	50	2	55	1	57	2	64	1	66	2	64	2	59	2	54	2	43	...	48	3	59	4	51	2	670	23	693
8	Saint Thomé ...	11	...	9	...	4	1	4	1	7	...	5	...	2	...	1	1	5	..	5	1	3	1	7	...	63	5	68
	Alwarpettah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	1
	Royapettah ...	3	...	10	...	4	...	2	...	4	...	5	...	4	...	8	..	4	...	4	...	5	...	5	...	58	...	58
	Meersaib's Pettah ...	6	1	3	...	6	...	5	...	4	...	5	...	10	...	3	...	6	...	2	...	4	...	4	...	58	1	59
	Kistnampettah ...	2	...	1	...	2	...	2	...	2	...	1	...	1	...	2	...	2	...	...	...	...	...	1	...	16	...	16
	Thanampettah ...	...	...	...	1	...	...	...	...	...	..	...	...	...	...	1	...	...	...	...	...	1	1	...	...	2	2	4
	Total...	22	1	23	1	16	1	13	1	17	...	16	...	17	...	15	1	17	...	11	1	13	2	18	...	198	8	206
	General Total...	138	3	143	4	149	5	141	2	136	4	145	3	139	8	126	4	107	2	116	6	134	7	137	2	1,611	50	1,661
Births from Hospitals.	Monegar Choultry Hpl.	...	...	...	...	...	...	...	...	1	...	...	...	1	...	1	...	2	...	...	...	2	...	1	...	8	...	8
	General Hospital ...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lock Hospital ...	...	...	...	...	...	..	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	..	...	...	...	...	...
	Hospital for Women & Children ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	..	...	...
	Lying-in Hospital ...	3	...	3	...	...	...	2	1	2	2	2	1	4	..	2	...	2	2	3	...	5	...	3	...	31	6	37
	Penitentiary Hospital	...	...	.	...	...	...	...	...	...	...	...	...	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lunatic Asylum ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	..	...	...	...	...	...	...	...	...
	Royapettah Hospital	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	3	...	3	...	...	...	2	1	3	2	2	1	5	...	3	...	4	2	3	...	7	...	4	...	39	6	45
	General Total...	141	3	146	4	149	5	143	3	139	6	147	4	144	8	129	4	111	4	119	6	141	7	141	2	1,650	56	1,706

VITAL STATISTICS.

TABLE VIII.—BIRTHS.

Return of Births among all Classes in each Village of the City of Madras, for the year 1880.

Municipal Divns.	Names of Villages.	Population.	Europeans. Born Alive.	Europeans. Still Born.	East Indians. Born Alive.	East Indians. Still Born.	Native Christians. Born Alive.	Native Christians. Still Born.	Hindus. Born Alive.	Hindus. Still Born.	Mahomedans. Born Alive.	Mahomedans. Still Born.	Total. Born Alive.	Total. Still Born.	Total Births.	Ratio per 1,000 of Population.
1	Tondiarpettah	35,240	..	..	..	..	1	..	177	..	2	..	180	..	180	88·0
	Washermenpettah ..	6,409	..	..	..	..	16	..	1,302	24	61	1	1,379	25	1,404	
	Royapuram	11,089	13	1	25	1	107	..	595	10	85	2	825	14	839	74·7
	Cashmode	12,383	1	..	..	..	48	..	318	2	56	1	423	3	426	34·4
	Total..	65,121	14	1	25	1	172	..	2,392	36	204	4	2,807	42	2,849	43·7
2	Peddoo Naick's Pettah ..	65,629	3	..	47	..	23	..	2,267	58	54	1	2,394	59	2,453	37·3
	Big Parcherry ..	5,179	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	John Pereira's Garden ..	2,930	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Total..	73,738	3	..	47	..	23	..	2,267	58	54	1	2,394	59	2,453	33·2
3	Moothealpettah ..	32,062	23	1	79	3	87	..	1,392	38	337	9	1,918	51	1,969	61·4
	Uttapaulium	18,895	..	..	..	..	..	..	..	..	..	..	..	..	..	...
	Fort St. George ..	1,588	1	..	..	..	..	...	..	...	..	..	1	..	1	0·6
	Total..	52,545	24	1	79	3	87	..	1,392	38	337	9	1,919	51	1,970	37·4
4	Gunpowder Mills ..	641	..	..	..	..	..	..	3	..	...	..	3	..	3	4·6
	Perambore	5,650	7	..	12	..	6	..	184	14	39	3	248	17	265	46·9
	Viasarapaudy.. ..	3,500	1	..	..	..	..	..	93	2	...	..	94	2	96	27·4
	Total..	9,791	8	..	12	..	6	..	280	16	39	3	345	19	364	37·1
5	Choolay ..	15,000	..	..	...	..	2	..	424	17	16	1	442	18	460	30·6
	Pursewalkum ..	19,006	9	..	31	..	38	1	704	12	23	..	805	13	818	43·0
	Pareamettoo	11,275	5	..	27	..	7	1	163	4	20	..	222	5	227	20·5
	New Town		..	..	4	..	..	..	1	..	..	..	5	..	5	
	Vepery ..	4,500	12	1	30	2	9	..	39	1	12	..	102	4	106	23·5
	Poodoopettah ..	3,774	..	..	10	..	36	1	129	2	14	..	189	3	192	50·8
	Egmore ..	4,392	10	..	4	..	6	..	148	3	2	..	170	3	173	27·6
	Comaleeswarapuram ..	7,544	..	..	1	..	3	..	145	2	6	..	155	2	157	
	Total..	65,491	36	1	107	2	101	3	1,753	41	93	1	2,090	48	2,138	32·6
6	Kilpaukum ..	5,222	4	..	..	..	3	..	83	3	2	..	92	3	95	18·1
	Chetput ..	2,611	..	..	..	..	1	..	136	1	2	..	139	1	140	53·6
	Nungumbakum ..	7,704	5	..	2	..	17	..	264	3	..	..	288	3	291	37·7
	Mackey's Garden ..	3,853	..	..	..	..	6	..	121	..	12	1	139	1	140	36·3
	Total..	19,390	9	..	2	..	27	..	604	7	16	1	658	8	666	34·3
7	Poodoopaukum ..	6,087	2	..	..	..	5	..	231	5	100	1	338	6	344	56·5
	Chintadripettah ..	15,120	4	..	4	..	12	..	518	6	13	..	551	6	557	36·8
	Narasingapooram ..	3,046	..	..	8	..	2	..	36	1	6	..	52	1	53	17·3
	Triplicane ..	33,258	4	..	4	..	6	1	743	12	475	18	1,232	31	1,263	37·9
	Theroovateeswaranpettah ..	12,057	..	..	1	..	..	..	106	3	76	4	183	7	190	15·7
	Total..	69,568	10	..	17	..	25	1	1,634	27	670	23	2,356	51	2,407	34·5
8	Saint Thomé ..	20,575	6	..	12	..	56	1	617	5	63	5	754	11	765	38·6
	Alwarpettah ..	1,163	..	..	..	..	..	...	75	..	1	..	76	..	76	
	Royapettah ..	5,255	..	..	14	..	24	...	166	..	58	..	262	..	262	49·8
	Meersaib's Pettah ..	2,050	..	..	1	..	3	...	77	..	58	1	139	1	140	68·2
	Kistnampettah ..	5,193	..	..	..	..	..	...	133	1	16	..	149	1	150	28·8
	Thanampettah ..	7,246	..	..	1	..	20	...	132	1	2	2	155	3	158	21·8
	Total..	41,482	6	...	28	..	103	1	1,200	7	198	8	1,535	16	1,551	37·3
	General Total..	397,126	110	3	317	6	544	5	11,522	230	1,611	50	14,104	294	14,398	36·2
Births from Hospitals.	Monegar Choultry Hospital ..	426	..	..	1	..	49	1	185	18	8	..	243	19	262	615·0
	General Hospital ..	..	12	..	..	..	..	...	..	..	..	..	12	..	12	..
	Lock Hospital ..	..	..	..	...	..	..	...	..	..	...	..	...	..	..	..
	Hospital for Women and Children ..	..	..	..	..	..	..	...	..	..	..	..	..	..	..	..
	Lying-in Hospital ..	..	16	1	119	4	135	7	1,016	67	31	6	1,317	85	1,402	..
	Penitentiary Hospital ..	..	..	..	..	..	..	..	3	..	...	..	3	...	3	..
	Lunatic Asylum ..	..	..	..	..	..	..	..	..	..	...	..	...	...	..	..
	Royapettah Hospital ..	..	..	..	..	..	..	...	..	...	...	...	...	..	..	..
	Total..	426	28	1	120	4	184	8	1,204	85	39	6	1,575	104	1,679	...
	General Total..	397,552	138	4	437	10	728	13	12,726	315	1,650	56	15,679	398	16,077	40·4

VITAL STATISTICS.

TABLE IX.—BIRTHS.

Return of Births in the City of Madras for the year 1880, *arranged according to Weeks.*

Number.	Weeks.	Born Alive.						Still Born.						Total Births.						Ratio per 1,000.
		Europeans.	East Indians.	Native Christians.	Hindus.	Mahomedans.	Total.	Europeans	East Indians.	Native Christians.	Hindus.	Mahomedans.	Total	Europeans.	East Indians.	Native Christians.	Hindus.	Mahomedans.	Total.	
1	1st to 2nd Jan. 1880 ..	1	2	4	116	12	135	..		..	6	..	6	1	2	4	122	12	141	..
2	3rd to 9th „ „ ..	2	10	13	264	42	331	..	..	..	9	2	11	2	10	13	273	44	342	44·7
3	10th to 16th „ „ ..	..	11	15	262	26	314	..	..	1	1	1	3	...	11	16	263	27	317	41·5
4	17th to 23rd „ „ ...	..	9	13	266	32	320	..	..	1	7	..	8	...	9	14	273	32	328	42·9
5	24th to 30th „ „ ..	4	9	8	195	27	243	..	..	..	4	..	4	4	9	8	199	27	247	32·3
6	31st to 6th Feb. „ ..	..	8	10	262	41	321	..	..	..	2	..	2	...	8	10	264	41	323	42·2
7	7th to 13th „ „ ..	5	5	15	200	33	258	..	..	..	2	..	2	5	5	15	202	33	260	34·0
8	14th to 20th „ „ ..	2	6	15	227	23	273	..	..	..	3	1	4	2	6	15	230	24	277	36·2
9	21st to 27th „ „ ..	1	6	14	187	42	250	1	..	..	6	3	10	2	6	14	193	45	260	34·0
10	28th to 5th Mar. „ ..	2	9	18	235	29	293	..	..	..	3	1	4	2	9	18	238	30	297	38·8
11	6th to 12th „ „ ..	3	3	16	239	34	295	..	..	1	3	1	5	3	3	17	242	35	300	39·2
12	13th to 19th „ „ ..	3	9	17	214	32	275	..	..	..	4	1	5	3	9	17	218	33	280	36·6
13	20th to 26th „ „ ..	2	7	8	198	42	257	..	..	..	4	..	4	2	7	8	202	42	261	34·1
14	27th to 2nd April „ ..	2	7	10	218	40	277	..	..	..	6	1	7	2	7	10	224	41	284	37·1
15	3rd to 9th „ „ ..	2	9	14	221	32	278	..	..	..	9	..	9	2	9	14	230	32	287	37·5
16	10th to 16th „ „ ...	3	6	7	221	32	269	..	1	1	3	..	5	3	7	8	224	32	274	35·8
17	17th to 23rd „ „ ..	2	8	11	208	35	264	..	..	..	4	1	5	2	8	11	212	36	269	35·2
18	24th to 30th „ „ ..	2	9	11	211	26	259	1	..	1	1	2	5	3	9	12	212	28	264	34·5
19	1st to 7th May „ ..	3	8	14	229	34	288	..	..	1	4	2	7	3	8	15	233	36	295	38·6
20	8th to 14th „ „ ..	..	9	9	227	23	268	..	..	..	1	1	2	...	9	9	228	24	270	35·3
21	15th to 21st „ „ ..	1	10	10	221	28	280	..	..	..	7	1	8	1	10	10	238	29	288	37·6
22	22nd to 28th „ „ ..	3	8	16	235	35	297	..	..	1	7	1	9	3	8	17	242	36	306	40·0
23	29th to 4th June „ ..	1	6	11	231	39	288	..	..	..	6	1	7	1	6	1	237	40	295	38·6
24	5th to 11th „ „ ..	5	9	20	224	42	300	..	1	..	8	3	12	5	10	20	232	45	312	40·8
25	12th to 18th „ „ ..	3	10	15	242	31	301	..	..	1	8	1	10	3	10	16	250	32	311	40·7
26	19th to 25th „ „ ..	3	6	12	255	38	314	..	1	..	1	..	2	3	7	12	256	38	316	41·3
27	26th to 2nd July „ ..	1	14	14	250	28	307	..	..	..	8	1	9	1	14	14	258	29	316	41·3
28	3rd to 9th „ „ ..	7	4	10	246	28	295	..	..	..	9	3	12	7	4	10	255	31	307	40·2
29	10th to 16th „ „ ..	3	6	14	251	36	310	..	..	..	5	1	6	3	6	14	256	37	316	41·3
30	17th to 23rd „ „ ..	1	14	16	244	28	303	..	..	1	5	3	9	1	14	17	249	31	312	40·8
31	24th to 30th „ „ ..	1	6	19	250	38	314	..	..	1	2	..	3	1	6	20	252	38	317	41·5
32	31st to 6th Aug. „ ..	1	7	12	216	25	261	..	..	..	6	..	6	1	7	12	222	25	267	34·9
33	7th to 13th „ „ ..	1	9	14	276	35	335	..	..	..	5	2	7	1	9	14	281	37	342	44·7
34	14th to 20th „ „ ..	1	9	17	277	25	329	..	1	..	4	1	6	1	10	17	281	26	335	43·6
35	21st to 27th „ „ ..	1	12	16	261	34	324	..	..	1	4	..	5	1	12	17	265	34	329	43·0
36	28th to 3rd Sep. „ ..	1	9	22	257	26	315	..	..	..	12	3	15	1	9	22	269	29	330	43·2
37	4th to 10th „ „ ..	6	12	15	260	22	315	..	1	..	9	..	10	6	13	15	269	22	325	42·5
38	11th to 17th „ „ ..	7	8	15	250	21	301	..	..	..	5	1	6	7	8	15	255	22	307	40·2
39	18th to 24th „ „ ..	3	10	17	243	34	307	..	2	..	12	..	14	3	12	17	255	34	321	41·9
40	25th to 1st Oct. „ ..	1	12	14	265	23	315	..	1	..	8	1	10	1	13	14	273	24	325	42·5
41	2nd to 8th „ „ ..	5	7	15	261	27	315	..	..	..	7	3	10	5	7	15	268	30	325	42·5
42	9th to 15th „ „ ..	4	7	15	275	28	329	2	1	..	8	2	13	6	8	15	283	30	342	44·7
43	16th to 22nd „ „ ..	3	9	19	278	28	337	..	..	..	5	..	5	3	9	19	283	28	342	44·7
44	23rd to 29th „ „ ...	3	12	11	252	32	310	..	..	...	8	..	8	3	12	11	260	32	318	41·6
45	30th to 5th Nov. „ ..	3	5	9	280	23	320	..	1	...	11	2	14	3	6	9	291	25	334	43·7
46	6th to 12th „ „ ..	4	5	19	277	27	332	..	..	...	2	2	4	4	5	19	279	29	336	43·9
47	13th to 19th „ „ ..	2	7	15	264	42	330	..	...	...	7	1	8	2	7	15	271	43	338	44·2
48	20th to 26th „ „ ..	7	4	15	265	29	320	..	...	...	8	2	10	7	4	15	273	31	330	43·2
49	27th to 3rd Dec. „ ..	4	10	22	256	35	327	..	...	...	4	2	6	4	10	22	260	37	333	43·6
50	4th to 10th „ „ ..	4	12	11	235	33	295	..	..	1	13	...	14	4	12	12	248	33	309	40·4
51	11th to 17th „ „ ..	4	6	12	253	27	302	..	...	...	8	...	8	4	6	12	261	27	310	40·5
52	18th to 24th „ „ ..	3	13	16	563	36	331	..	...	..	12	1	13	3	13	16	275	37	344	44·9
53	25th to 31st „ „ ..	2	9	8	203	30	252	..	...	1	9	1	11	2	9	9	212	31	263	34·4
	Total...	138	437	728	12,726	1,650	15,679	4	10	13	315	56	398	142	447	741	13,041	1,706	16,077	40·4

Return of Deaths from all causes for the year 1880, *arranged according to Caste.*

Class.	Order.	Classification.	Europeans.		East Indians.		Native Christians.		Hindus.		Mahomedans.		Total.	
			M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
I		*General Diseases.*												
	1	Sub-division A	9	4	26	31	60	87	1,936	1,995	236	231	2,267	2,348
	2	Do. B	10	...	20	20	22	30	376	283	74	75	502	408
II		*Local Diseases.*												
	1	Diseases of the Nervous System	10	4	43	32	66	61	1,863	1,588	267	218	2,254	1,903
	2	Eye	...	...	...	...	...	...	...	...	...	...	...	...
	3	Ear	...	..	...	...	...	...	1	...	...	...	1	...
	4	Nose	...	...	...	...	...	...	...	...	...	...	...	...
	5	Circulatory System	2	1	5	3	1	1	37	21	11	8	56	34
	6	Absorbent	...	..	...	...	..	...	...	...	...	...	...	...
	7	Ductless Glands	...	...	...	...	...	...	...	...	...	...	...	...
	8	Respiratory System	5	2	21	7	5	10	212	189	47	49	290	257
	9	Digestive do.	24	6	46	40	68	65	1,031	978	131	122	1,300	1,211
	10	Urinary do.	3	1	1	...	...	...	17	6	2	1	23	8
	11	Generative do.	...	...	1	9	2	8	25	172	2	35	30	224
	12	Organs of Locomotion	...	...	...	1	...	...	...	...	...	...	...	1
	13	Cellular Tissue	1	...	...	1	...	...	3	3	1	2	5	6
	14	Cutaneous System	2	...	3	5	4	9	109	111	14	13	132	138
III		*Conditions, &c.*	4	3	8	20	19	24	424	534	84	119	539	700
	1	Debility	3	2	5	5	3	9	51	50	1	4	63	70
IV		*Poisons*	4	...	...	...	...	...	2	6	1	...	7	6
V		*Injuries.*												
	1	Battle	...	...	...	...	...	...	...	...	...	...	...	..
	2	Accidental	2	...	3	1	1	...	46	37	5	3	57	41
	3	Homicidal	...	...	...	...	...	...	1	1	...	...	1	1
	4	Self-inflicted	...	...	...	...	...	...	4	17	...	2	4	19
	5	Judicial	...	..	...	...	...	...	...	...	...	...	...	...
VI		*Surgical Operations*	...	...	...	...	...	...	1	...	...	...	1	...
		No appreciable Diseases	...	...	...	...	...	...	...	...	...	...	...	...
		Total	79	23	182	175	251	304	6,144	5,991	876	882	7,532	7,375
		Total of Males and Females	102		357		555		12,135		1,758		14,907	

APPENDIX V.

VITAL STATISTICS.

Table XI.—Deaths.

Return shewing the average Deaths in Madras for 10 *previous years ending* 1879, *as contrasted with the Mortality of the year* 1880.

Year.	Deaths from Special Diseases.						Deaths from other Diseases.	General Total.	Ratio per Mille.	Order of salubrity.
	Small-pox.	Measles.	Fevers.	Bowel Complaints.	Cholera.	Total.				
1869 ...	38	4	2,015	1,556	568	4,181	7,081	11,262	28·8	1
1870 ...	18	12	2,296	1,589	861	4,776	7,109	11,885	29·9	2
1871 ...	234	87	2,474	1,896	493	5,184	7,851	13,035	32·7	3
1872 ...	624	34	2,848	2,035	5	5,546	8,472	14,018	35·2	5
1873 ...	1,052	10	2,569	2,170	6	5,807	8,802	14,609	36·7	7
1874 ...	819	11	2,679	2,124	...	5,633	9,127	14,760	36·8	8
1875 ...	196	...	2,445	2,072	935	5,648	8,521	14,169	35·5	6
1876 ...	409	12	2,351	2,295	2,105	7,172	8,587	15,759	39·6	10
1877 ...	Omitted as being abnormal in consequence of the famine.									
1878 ...	447	1	4,982	4,542	85	10,057	8,855	18,912	47·5	11
1879 ...	910	10	3,465	1,757	35	6,177	7,626	13,803	34·7	4
Total...	4,747	181	28,124	22,036	5,093	60,181	82,031	1,42,212	...	...
Average...	474·7	18·1	2812·4	2203·6	509·3	6018·1	8203·1	14221·2	...	...
1880...	869	105	3,549	2,249	2	6,774	8,133	14,907	37·4	9
Increase...	394·3	86·9	736·6	45·4	...	655·9	...	684·8	...	...
Decrease...	..	...	...	...	507·3	...	70·1	..	...	...

VITAL STATISTICS.

TABLE XII.—DEATHS.

Return shewing the Deaths from Special and other Diseases among Europeans, for the year 1880.

Population.	3,613.																		
Months.	Cause of Death.																		Total of Males and Females.
	Small-pox.		Measles.		Fevers.		Dysentery.		Diarrhœa.		Cholera.		Injuries.		Other Diseases.		Total.		
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
January ...	...	...	...	...	1	...	...	...	2	...	...	...	...	...	9	1	12	1	13
February	...	...	...	...	1	...	...	...	...	...	...	...	...	...	3	1	4	1	5
March	...	...	...	...	1	...	...	1	...	...	...	...	...	...	1	1	2	2	4
April	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	3	2	3	5
May	...	...	...	...	1	1	...	...	2	...	...	...	...	...	7	5	10	6	16
June	...	...	...	...	2	...	...	...	1	...	...	...	...	...	8	1	11	1	12
July	...	...	...	...	...	...	...	...	1	...	...	...	...	...	5	1	6	1	7
August	...	...	...	...	1	1	...	...	...	...	...	...	...	...	8	1	9	2	11
September	...	...	...	...	1	...	...	...	...	...	...	...	...	...	6	1	7	1	8
October	...	...	...	...	...	...	2	...	...	2	...	...	1	...	5	2	8	4	12
November	...	...	...	...	1	...	...	...	...	...	...	...	...	...	2	...	3	...	3
December	...	...	...	...	...	1	...	...	...	...	...	...	1	..	4	...	5	1	6
Total	...	...	...	...	9	3	2	1	6	2	...	...	2	...	60	17	79	23	102
Total of Males and Females	...		...		12		3		8		...		2		77		102		...
Ratio per 1,000 of Population	...		...		3·3		0·8		2·2		...		0·5		21·3		28·2		...

Of the foregoing Deaths, the following occurred in Hospitals.

Monegar Choultry Hospital	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
General Hospital	...	...	...	...	3	...	1	...	2	...	...	...	...	...	23	2	29	2	31
Lock Hospital	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hospital for Women and Children	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	1
Lying-in Hospital	...	...	...	...	...	1	...	...	...	...	...	...	.	...	1	...	1	1	2
Penitentiary Hospital	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lunatic Asylum	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...
Royapettah Hospital	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total	...	...	...	...	3	1	1	...	2	...	...	...	...	...	25	2	31	3	34

VITAL STATISTICS.

Table XIII.—Deaths.

Return shewing the Deaths from Special and other Diseases among East Indians, for the year 1880.

Population.	12,013																		
Months.	Cause of Death.																		Total of Males & Females.
	Small-pox.		Measles.		Fevers.		Dysentery.		Diarrhœa.		Cholera.		Injuries.		Other Diseases.		Total.		
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
January	...	...	...	...	2	1	3	1	4	3	...	...	1	...	9	8	19	13	32
February	...	...	...	...	3	1	1	1	2	1	...	...	...	...	13	9	19	12	31
March	...	2	...	...	2	3	1	1	1	1	...	...	...	1	6	8	10	16	26
April	1	1	...	...	1	3	1	1	1	1	...	...	1	...	13	15	18	21	39
May	2	2	...	...	1	2	2	2	...	1	...	...	...	...	10	10	15	17	32
June	2	1	...	...	...	1	1	2	...	...	...	...	...	...	10	8	13	12	25
July	3	...	...	...	1	3	1	2	2	3	...	...	...	...	9	10	16	18	34
August	3	1	...	...	...	1	1	...	1	1	...	...	...	...	7	7	12	10	22
September	...	...	...	...	...	...	...	1	...	...	...	...	...	...	9	15	9	16	25
October	1	2	...	...	...	2	2	...	3	...	...	...	...	...	9	10	15	14	29
November	...	...	...	...	...	1	1	1	1	...	...	...	...	...	7	15	9	17	26
December	1	1	...	...	...	3	6	...	1	1	...	...	1	...	18	4	27	9	36
Total...	13	10	...	...	10	21	20	12	16	12	...	...	3	1	120	119	182	175	357
Total of Males and Females...	23		...		21		32		28		...		4		239		357		...
Ratio per 1,000 of Population..	1·9		...		1·7		2·6		2·3		...		0·3		19·8		29·7		...
Of the foregoing Deaths, the following occurred in Hospitals.																			
Monegar Choultry Hospital ...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	8	2	8	3	11
General Hospital	2	...	...	...	1	...	12	...	1	...	...	...	...	...	15	2	31	2	33
Lock Hospital	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hospital for Women & Children	...	...	...	...	1	1	...	...	1	2	...	...	...	1	1	7	3	11	14
Lying-in Hospital	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1	5	1	6	7
Penitentiary Hospital	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lunatic Asylum	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	1	2	1	3
Royapettah Hospital	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	1
Total...	2	...	...	...	2	2	12	...	2	3	...	...	1	1	27	17	46	23	69

VITAL STATISTICS.

TABLE XIV.—DEATHS.

Return shewing the Deaths from Special and other Diseases among Native Christians, for the year 1880.

Population.	21,441.																		
Months.	Cause of Death.																		Total of Males and Females.
	Small-pox.		Measles.		Fevers.		Dysentery.		Diarrhœa.		Cholera.		Injuries.		Other Diseases.		Total.		
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
January	1	...	...	...	8	7	15	7	1	1	...	...	...	...	18	22	43	37	80
February	...	...	...	...	7	9	4	6	1	...	...	...	...	...	15	16	27	31	58
March	...	...	...	...	7	9	5	5	1	1	...	...	...	...	7	10	20	25	45
April	2	2	...	...	5	8	1	2	...	1	...	...	1	...	11	9	20	22	42
May	1	1	...	...	3	6	3	1	1	3	...	...	...	...	10	12	18	23	41
June	...	1	...	...	4	4	4	3	1	1	...	...	...	...	9	13	18	22	40
July	...	...	...	...	2	7	5	7	...	2	...	...	...	...	11	10	18	26	44
August	...	...	...	1	4	9	5	5	3	...	...	...	...	...	8	16	20	31	51
September	...	1	...	...	5	6	3	2	1	3	...	...	...	...	7	11	16	23	39
October	1	...	...	...	2	6	2	4	2	1	...	...	...	...	5	13	12	24	36
November	...	...	...	...	6	7	1	3	...	...	...	...	...	...	15	11	22	21	43
December	...	...	...	...	1	2	2	4	1	...	...	...	...	...	13	13	17	19	36
Total...	5	5	...	1	54	80	50	49	12	13	...	...	1	...	129	156	251	304	555
Total of Males and Females...	10		1		134		99		25		...		1		285		555		...
Ratio per 1,000 of Population ...	0·4		0·04		6·2		4·6		1·1		...		0·04		13·2		25·8		...
Of the foregoing Deaths, the following occurred in Hospitals.																			
Monegar Choultry Hospital...	...	...	...	...	...	...	3	3	1	1	...	...	...	...	10	12	14	16	30
General Hospital ...	...	...	...	...	1	...	1	...	1	...	...	...	...	...	9	...	12	...	12
Lock Hospital ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hospital for Women and Children ...	...	...	...	...	...	...	...	1	...	1	...	...	...	...	1	3	1	5	6
Lying-in Hospital ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	5	3	5	8
Penitentiary Hospital ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Lunatic Asylum ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Royapettah Hospital ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	2	2
Total...	...	...	...	...	1	...	4	4	2	2	...	...	...	...	23	22	30	28	58

VITAL STATISTICS.

TABLE XV.—DEATHS.

Return shewing the Deaths from Special and other Diseases among Mahomedans, for the year 1880.

Population.	50,964																		
Months.	Cause of Death.																		Total of Males & Females.
	Small-pox.		Measles.		Fevers.		Dysentery.		Diarrhœa.		Cholera.		Injuries.		Other Diseases.		Total.		
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
January	1	2	..	...	12	18	5	9	4	5	...	...	1	2	44	49	67	85	152
February	9	8	1	...	6	10	11	7	2	2	...	...	...	...	51	51	80	78	158
March	11	13	...	1	20	18	9	8	1	6	...	...	...	...	53	50	94	96	190
April	11	11	...	1	18	17	8	4	1	4	...	...	1	1	44	57	83	95	178
May	8	8	1	...	13	19	9	9	2	7	...	...	...	1	48	46	81	90	171
June	5	2	...	1	17	20	10	4	2	1	...	...	...	...	44	39	78	67	145
July	4	...	1	...	9	11	9	4	1	4	...	...	1	...	39	46	64	65	129
August	5	4	1	...	13	13	3	3	1	1	...	...	...	...	45	33	68	54	122
September	4	4	...	...	14	10	9	6	3	3	...	...	...	1	35	40	65	64	129
October	1	3	...	...	10	8	5	9	...	...	...	...	...	...	42	42	58	62	120
November	4	...	...	1	10	10	9	5	2	1	...	...	...	...	39	37	64	54	118
December	2	2	1	...	18	11	8	5	5	3	...	...	2	...	38	51	74	72	146
Total...	65	57	5	4	160	165	95	73	24	37	...	...	5	5	522	541	876	882	1,758
Total of Males and Females	122		9		325		168		61		...		10		1,063		1,758		...
Ratio per 1,000 of Population	2·2		0·1		6·3		3·2		1·1		...		0·1		20·8		34·4		...
Of the foregoing Deaths, the following occurred in Hospitals.																			
Monegar Choultry Hospital	...	...	..	...	...	...	4	2	3	1	...	...	1	...	7	5	15	8	23
General Hospital ...	...	...	...	...	...	...	1	...	2	...	...	...	1	...	8	...	12	...	12
Lock Hospital ...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...
Hospital for Women & Children	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...
Lying-in Hospital ...	...	...	...	...	...	...	...	1	..	...	...	...	...	...	4	3	4	4	8
Penitentiary Hospital...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	1
Lunatic Asylum ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	1
Royapettah Hospital ...	...	...	...	...	...	...	1	...	...	1	...	...	...	1	3	6	4	8	12
Total...	...	...	...	...	...	...	6	3	6	2	...	...	2	1	23	14	37	20	57

VITAL STATISTICS.

TABLE XVI.—DEATHS.

Return shewing the Deaths from Special and other Diseases among Hindus, for the year 1880.

Population	309,521																		
Months.	Cause of Death.																		
	Small-pox.		Measles.		Fevers.		Dysentery.		Diarrhœa.		Cholera.		Injuries.		Other Diseases.		Total.		Total of Males and Females.
	M.	F.	M	F.	M.	F.	M.	F.	M.	F.	M	F.	M	F.	M.	F.	M.	F.	
January	9	9	...	...	171	156	71	50	25	21	...	...	8	3	365	330	649	569	1,218
February	33	37	6	3	131	125	67	52	30	42	...	...	8	7	256	252	531	518	1,049
March	61	61	6	8	135	143	47	43	18	15	...	...	5	4	254	256	526	530	1,056
April	39	46	5	3	132	120	31	41	24	20	...	...	5	7	256	231	492	468	960
May	32	25	5	5	118	150	53	37	30	17	...	1	1	10	238	203	477	448	925
June	14	17	2	...	124	118	35	34	20	22	...	...	7	1	228	225	430	417	847
July	17	19	2	5	118	127	55	54	21	20	1	...	...	4	229	236	443	465	908
August	36	33	4	10	131	104	56	63	35	27	...	...	3	3	259	257	524	497	1,021
September	35	38	4	3	100	122	50	41	23	31	...	...	5	1	279	235	496	471	967
October	32	33	4	4	98	107	54	44	26	27	...	...	3	8	250	280	467	503	970
November	15	22	4	3	108	116	50	65	22	22	...	...	5	1	296	283	500	512	1,012
December	24	27	5	4	147	146	51	70	34	39	...	...	1	6	347	301	609	593	1,202
Total...	347	367	47	48	1,513	1,534	620	594	308	303	1	1	51	55	3,257	3,089	6,144	5,991	12,135
Total of Males and Females... ...	714		95		3,047		1,214		611		2		106		6,346		12,135		...
Ratio per 1,000 of Population ...	2·2		0·2		9·8		3·9		1·9		0·006		0·3		20·5		39·2		...
Of the foregoing Deaths, the following occurred in Hospitals.																			
Monegar Choultry Hospital	...	...	1	...	2	2	24	20	30	39	...	...	2	4	84	108	143	173	316
General Hospital ...	...	...	...	...	3	...	17	...	17	1	...	...	8	2	96	...	141	3	144
Lock Hospital ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	1
Hospital for Women and Children ..	...	...	.	...	...	3	..	3	1	6	...	...	...	1	4	14	5	27	32
Lying-in Hospital ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	44	43	44	43	87
Penitentiary Hospital	...	...	...	...	...	...	...	...	2	...	...	...	...	...	12	2	14	2	16
Lunatic Asylum ...	...	...	...	...	...	...	1	2	1	...	...	...	...	...	15	4	17	6	23
Royapettah Hospital..	..	...	...	...	2	1	3	3	8	1	...	...	1	1	12	19	26	25	51
Total...	...	...	1	...	7	6	45	28	59	47	...	...	11	8	267	191	390	280	670

APPENDIX V.

VITAL STATISTICS.

Table XVII.—Deaths.

Return shewing the Deaths from Special and other Diseases among all Classes, for the year 1880.

Population.	397,552																		
Months.	Cause of Death.																		Total of Males and Females.
	Small-pox.		Measles.		Fevers.		Dysentery.		Diarrhœa.		Cholera.		Injuries.		Other Diseases.		Total.		
	M.	F.	M	F.	M.	F.	M.	F.	M.	F.	M	F.	M.	F.	M.	F.	M.	F.	
January	11	11	...	...	194	182	94	67	36	30	...	...	10	5	445	410	790	705	1.495
February	42	45	7	3	148	145	83	66	35	45	...	...	8	7	338	329	661	640	1,301
March	72	76	6	9	165	173	62	58	21	23	...	...	5	5	321	325	652	669	1,321
April	53	60	5	4	156	148	41	48	26	26	...	...	8	8	326	315	615	609	1,224
May	43	36	6	5	136	178	67	49	35	28	...	1	1	11	313	276	601	584	1,185
June	21	21	2	1	147	143	50	43	24	24	...	...	7	1	299	286	550	519	1,069
July	24	19	3	5	130	148	70	67	25	29	1	...	1	4	293	303	547	575	1,122
August	44	38	5	11	149	128	65	71	40	29	...	...	3	3	327	314	633	594	1,227
September	39	43	4	3	120	138	62	50	27	37	...	...	5	2	336	302	593	575	1,168
October	35	38	4	4	110	123	65	57	31	30	...	...	3	8	312	347	560	607	1,167
November	19	22	4	4	125	134	61	74	25	23	...	...	6	1	358	346	598	604	1,202
December	27	30	6	4	166	163	67	79	41	43	...	...	5	6	420	369	732	694	1,426
Total...	430	439	52	53	1,746	1,803	787	729	366	367	1	1	62	61	4,088	3,922	7,532	7,375	14,907
Total of Males and Females	869		105		3,549		1,516		733		2		123		8,010		14,907		...
Ratio per 1,000 of Population...	2·1		0·2		8·9		3·8		1·8		0·005		0·3		20·1		37·4		...
Of the foregoing Deaths, the following occurred in Hospitals.																			
Monegar Choultry Hospital	...	...	1	...	2	2	31	25	34	42	...	...	3	4	109	127	180	200	380
General Hospital ...	2	...	...	...	8	...	3	...	23	1	...	...	9	2	151	4	225	7	232
Lock Hospital ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	1
Hospital for Women & Children	...	...	...	...	1	4	...	4	2	9	...	...	...	2	7	24	10	43	53
Lying-in Hospital ...	...	...	...	...	...	2	...	1	...	...	...	...	...	...	53	56	53	59	112
Penitentiary Hospital...	...	...	...	...	...	...	...	...	3	...	...	...	...	...	12	2	15	2	17
Lunatic Asylum .	...	...	...	...	...	...	1	2	1	...	...	...	1	...	17	5	20	7	27
Royapettah Hospital ...	...	...	...	...	2	1	4	3	8	2	...	...	1	2	16	27	31	35	66
Total...	2	...	1	...	13	9	68	35	71	54	...	...	14	10	365	246	534	354	888

APPENDIX V.

VITAL STATISTICS.

TABLE XVIII.—DEATHS.

Return shewing the Deaths among Europeans in each Village of the City of Madras, for the year 1880.

Municipal Divisions.	Names of Villages.	Europeans. January. M	F.	February. M	F.	March. M	F.	April. M	F.	May. M	F.	June. M	F.	July. M	F	August. M	F.	September. M	F.	October. M	F.	November. M	F	December. M	F	Total. M	F	Total of Males and Females.
1	Tondiarpettah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Washermenpettah	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1
	Royapooram	...	...	...	...	...	...	...	...	1	...	...	...	1	...	2	...	1	...	1	1	...	...	1	...	7	1	8
	Cashmode	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	1
	Total	...	...	...	...	...	...	...	...	1	1	...	...	1	...	2	...	1	1	1	1	...	...	1	...	7	3	10
2	Pedoo Naick's Pettah	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...	...	—	...	...	...	...	...	...	...	...	2	2
	Big Parcherry	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	John Pereira's Garden	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total	...	...	...	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	2
3	Moothealpettah	...	...	...	...	...	1	1	...	3	1	1	...	...	...	...	...	2	...	1	1	3	...	...	1	11	4	15
	Uttapaulium	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Fort Saint George	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1	...	...	...	1	...	3	1	4
	Total	1	...	...	...	...	1	1	...	3	1	1	1	...	...	...	...	2	...	2	1	3	...	1	1	14	5	19
4	Gunpowder Mills	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
	Perambore	2	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	1	...	...	...	...	3	2	5
	Viasarapaudy	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total	3	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	1	...	...	...	...	4	2	6
5	Choolay	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Pursewalkum	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
	Pareamettoo	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...	2	...	2
	New Town	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	2
	Vepery	...	...	...	...	...	...	...	...	...	...	2	...	...	1	...	...	...	...	...	1	...	...	...	...	2	2	4
	Poodoopettah	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	2
	Egmore	1	...	...	...	...	...	...	...	...	1	...	...	1	...	1	...	...	...	...	...	...	...	1	...	4	1	5
	Comaleeswarapooram	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total	4	...	...	...	1	...	...	1	...	1	3	...	1	1	1	...	...	...	1	1	...	...	1	...	12	4	16
6	Kilpaukum	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Chetput	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Nungumbakum	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
	Mackey's Garden	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
7	Poodoopaukum	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
	Chintadripettah	...	...	...	...	...	...	...	...	1	...	1	...	1	...	...	...	1	...	...	...	...	...	...	...	4	...	4
	Narasingapooram	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1	1	2
	Triplicane	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	1
	Therooveteeswaranpettah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total	...	...	1	...	1	...	...	...	1	...	1	...	2	...	...	1	1	...	...	...	...	...	...	...	7	1	8
8	Saint Thomé	...	...	...	...	...	1	...	...	...	1	1	...	1	...	1	...	...	...	...	...	...	...	...	...	3	2	5
	Alwarpettah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Royapettah	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1
	Meer Saib's Pettah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Kistnampettah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Thanampettah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total	...	...	...	1	...	1	...	...	...	1	1	...	1	...	1	...	...	...	...	...	...	...	...	...	3	3	6
	General Total	8	...	1	1	2	2	1	2	5	6	8	1	5	1	4	1	4	1	4	4	3	...	3	1	48	20	68
Hospitals.	Monegar Choultry Hospital	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	General Hospital	4	1	3	...	...	...	...	1	5	...	2	...	1	...	5	...	3	...	4	...	...	...	2	...	29	2	31
	Lock Hospital	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hospital for Women and Children	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
	Lying-in Hospital	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1	...	...	—	...	...	...	...	...	1	1	2
	Penitentiary Hospital	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lunatic Asylum	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Royapettah Hospital	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total	4	1	3	...	...	...	1	1	5	...	3	...	1	...	5	1	3	...	4	...	...	...	2	...	31	3	34
	General Total	12	1	4	1	2	2	2	3	10	6	11	1	6	1	9	2	7	1	8	4	3	...	5	1	79	23	102

APPENDIX V.

VITAL STATISTICS.

TABLE XIX.—DEATHS.

Return shewing the Deaths among East Indians in each Village of the City of Madras, for the year 1880.

Municipal Divisions.	Names of Villages.	East Indians.																												Total of Males and Females.
		January.		February.		March.		April.		May.		June.		July.		August.		Sept.		October.		November		December.		Total.				
		M	F	M	F	M	F	M	F.	M	F.	M	F.	M	F.	M	F.	M	F.	M	F.	M	F.	M	F.	M	F.			
1	Tondiarpettah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			...
	Washermenpettah	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1	...	...	...	...	...	...	...	2			2
	Royapooram	2	...	...	...	...	...	...	3	1	2	...	1	...	1	...	1	1	...	1	...	...	3	2	1	7	12			19
	Cashmode	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1			1
	Total...	2	...	...	...	...	...	...	3	1	2	...	2	...	1	...	1	1	1	1	...	...	4	2	1	7	15			22
2	Peddoo Naick's Pettah ...	1	...	1	1	...	1	2	2	...	2	3	1	1	2	1	1	...	...	...	2	2	1	3	...	14	13			27
	Big Parcherry	2	...	1	3	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4	4			8
	John Pereira's Garden ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			...
	Total...	3	...	2	4	1	2	2	2	...	2	3	1	1	2	1	1	...	...	...	2	2	1	3	...	18	17			35
3	Moothealpettah	3	...	4	1	1	4	2	1	2	...	1	1	2	4	2	4	2	6	3	5	3	3	3	1	28	30			58
	Uttapaulium	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			...
	Fort Saint George	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			...
	Total...	3	...	4	1	1	4	2	1	2	...	1	1	2	4	2	4	2	6	3	5	3	3	3	1	28	30			58
4	Gunpowder Mills	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			...
	Perambore	2	2	1	1	...	...	1	2	...	1	1	1	1	1	...	...	2	2	2	...	...	...	1	1	11	11			22
	Viasarapaudy	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			...
	Total...	2	2	1	1	...	...	1	2	...	1	1	1	1	1	...	...	2	2	2	...	...	...	1	1	11	11			22
5	Choolay	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			...
	Pursewalkum	...	2	...	1	...	1	1	3	...	1	1	...	1	1	2	...	...	3	3	1	...	...	2	1	10	14			24
	Pareamettoo	...	...	1	...	...	2	1	...	4	2	...	...	1	2	...	1	1	...	...	2	1	...	3	...	12	9			21
	New Town	2	1	2	2	1	...	1	1	...	...	...	...	1	1	...	...	...	1	...	...	...	...	...	2	7	8			15
	Vepery	1	...	1	...	...	2	2	1	...	2	...	2	1	1	...	1	1	...	2	...	...	4	...	1	8	14			22
	Poodoopettah	2	...	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	1	...	1	...	5	1			6
	Egmore	...	...	1	1	...	...	...	2	...	...	1	...	...	...	...	...	1	...	...	1	...	...	1	...	4	4			8
	Comaleeswarapuram	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			...
	Total...	5	3	5	4	1	5	5	7	4	6	2	2	5	5	2	2	3	4	5	4	2	4	7	4	46	50			96
6	Kilpaukum	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...			1
	Chetput...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			...
	Nungumbakum	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...			1
	Mackey's Garden	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			...
	Total...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	2	...			2
7	Poodoopaukum...	...	...	...	...	...	...	...	1	...	...	...	...	1	1	1	1	...	...	...	...	...	...	...	...	2	3			5
	Chintadripettah	...	1	1	1	...	...	...	1	...	2	...	...	...	1	...	...	...	1	...	...	1	1	1	...	2	9			11
	Narasingapuram	1	1	1	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	5	3			8
	Triplicane	...	...	1	...	...	...	...	...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	1	...	4	1			5
	Theroovateeswaranpettah ...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...			1
	Total...	1	2	3	1	...	...	1	3	1	2	2	1	2	2	1	1	...	1	1	1	...	1	2	1	14	16			30
8	Saint Thomé	...	1	1	...	2	...	2	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	2	...	7	3			10
	Alwarpettah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			...
	Royapettah	...	2	...	...	...	2	1	1	2	1	...	2	...	1	...	...	...	...	...	1	...	...	...	...	3	10			13
	Meer Saib's Pettah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			...
	Kistnampettah...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			...
	Thanampettah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			...
	Total...	...	3	1	...	2	2	3	1	2	1	...	2	...	2	...	...	...	...	...	1	...	1	2	...	10	13			23
	General Total...	17	10	16	11	5	13	14	19	10	14	9	10	11	17	6	9	8	14	12	13	7	14	21	8	136	152			288
Hospitals.	Monegar Choultry Hospital ...	1	1	...	...	...	...	...	...	1	1	...	1	1	...	2	...	...	...	...	2	...	1	...	...	8	3			11
	General Hospital ...	...	1	3	...	5	1	3	...	2	...	3	...	3	...	4	...	1	...	2	...	...	...	5	...	31	2			33
	Lock Hospital	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			...
	Hospital for Women & Children	1	1	...	1	...	2	...	2	1	2	...	1	1	...	...	1	...	...	...	...	1	...	...	...	3	11			14
	Lying-in Hospital	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	2	...	1	...	2	...	1	1	6			7
	Penitentiary Hospital... ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			...
	Lunatic Asylum	...	...	...	...	...	...	1	...	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	2	1			3
	Royapettah Hospital	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1	...			1
	Total...	2	3	3	1	5	3	4	2	5	3	4	2	5	1	6	1	1	2	3	1	2	3	6	1	46	23			69
	General Total...	19	13	19	12	10	16	18	21	15	17	13	12	16	18	12	10	9	16	15	14	9	17	27	9	182	175			357

VITAL STATISTICS.

TABLE XX.—DEATHS.

Return shewing the Deaths among Native Christians in each Village of the City of Madras, for the year 1880.

Municipal Divisions.	Names of Villages.	Native Christians. January. M	January. F	February. M	February. F	March. M	March. F	April. M	April. F	May. M	May. F	June. M	June. F	July. M	July. F	August. M	August. F	September. M	September. F	October. M	October. F	November. M	November. F	December. M	December. F	Total. M.	Total. F.	Total of Males and Females.
1	Tondiarpettah ...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1
	Washermenpettah ...	...	1	1	1	1	1	...	...	1	1	1	...	2	1	...	...	...	1	..	1	1	1	...	1	7	9	16
	Royapuram	4	4	3	2	3	2	2	5	1	3	...	2	1	3	4	3	2	2	1	5	2	3	3	1	26	35	61
	Cashmode	3	5	1	4	2	...	1	1	2	...	...	1	5	2	2	3	3	3	...	1	2	1	1	1	22	22	44
	Total...	7	10	5	7	6	3	3	7	4	4	1	3	8	6	6	6	5	6	1	7	5	5	4	3	55	67	122
2	Peddoo Naick's Pettah ...	1	...	...	...	1	...	1	2	...	...	...	1	...	...	4	4	1	...	...	...	...	...	1	1	9	8	17
	Big Parcherry	...	1	...	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	3	4
	John Pereira's Garden ...	2	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	1	4
	Total...	3	2	1	2	2	...	1	2	...	...	...	1	...	...	4	4	1	...	..	...	...	...	1	1	13	12	25
3	Moothealpettah ...	8	2	3	2	1	7	2	1	2	2	2	5	3	3	1	5	2	5	2	2	2	3	4	3	32	40	72
	Uttapauliam ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Fort Saint George ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	8	2	3	2	1	7	2	1	2	2	2	5	3	3	1	5	2	5	2	2	2	3	4	3	32	40	72
4	Gunpowder Mills ..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...
	Perambore	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	2	2	4
	Viasarapaudy	...	...	...	..	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	...	...	1	1	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	2	2	4
5	Choolay	...	1	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	3
	Pursewalkum	3	...	1	6	4	6	1	3	5	...	...	2	2	1	1	2	1	...	3	2	4	2	...	1	25	25	50
	Pareamettoo	...	...	...	...	...	2	1	...	...	...	1	1	...	2	...	2	3	...	2	2	1	2	1	2	9	13	22
	New Town	1	5	1	...	...	...	...	1	...	...	...	...	...	...	1	1	...	...	...	...	...	2	...	...	3	9	12
	Vepery	...	1	1	1	...	...	...	...	...	...	3	...	...	1	...	1	...	1	...	...	1	...	1	...	6	5	11
	Poodoopettah	2	3	7	3	1	1	3	...	...	2	2	3	1	3	2	1	1	2	...	1	...	...	...	1	19	20	39
	Egmore	...	...	1	...	...	...	...	..	...	1	1	...	1	...	...	...	...	...	...	1	...	...	...	2	3	4	7
	Comaleeswarapuram ...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1
	Total...	6	10	11	10	5	10	5	4	5	4	7	7	4	7	4	7	5	3	5	6	6	6	2	6	65	80	145
6	Kilpaukum	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	2	1	3
	Chetput	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Nungumbaukum ...	...	...	...	1	...	...	...	1	...	...	1	...	...	...	...	1	...	...	1	1	...	...	1	...	3	4	7
	Mackey's Garden ...	...	1	1	...	...	1	...	1	...	1	...	...	...	1	...	2	...	2	...	1	1	1	1	...	3	11	14
	Total...	2	1	1	1	...	1	...	2	...	1	1	...	...	1	...	3	...	3	1	2	1	1	2	...	8	16	24
7	Poodoopaukum ...	...	1	...	...	1	...	...	...	...	...	...	...	...	1	1	1	...	...	...	...	1	...	..	1	3	4	7
	Chintadripettah ...	4	5	1	2	...	...	2	...	3	3	...	...	...	...	...	...	...	...	...	1	...	...	...	...	10	11	21
	Narasingapuram ...	1	...	..	...	1	...	...	1	1	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	3	3	6
	Triplicane	2	...	1	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	2	4	3	7
	Therooveteeswaranpettah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...
	Total ..	7	6	2	2	2	..	2	1	4	3	1	1	...	2	1	1	..	1	...	1	1	...	...	3	20	21	41
8	Saint Thomé	2	2	1	2	...	2	...	1	...	6	2	3	1	1	3	3	1	...	2	1	3	4	2	1	17	26	43
	Alwarpettah ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Royapettah	1	1	...	...	...	...	...	...	1	...	...	...	...	1	...	...	...	1	...	...	1	...	...	...	3	3	6
	Meer Saib's Pettah ...	...	1	...	...	1	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	2	4
	Kistnampettah... ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Thanampettah	...	1	...	1	1	..	1	...	...	...	1	...	...	1	1	...	..	...	...	1	...	1	...	2	4	7	11
	Total...	3	5	1	3	2	2	1	1	2	7	3	3	1	3	4	3	1	1	2	2	4	5	2	3	26	38	64
	General Total...	36	36	25	28	19	23	14	18	17	21	15	20	16	22	20	29	14	20	11	20	19	20	15	19	221	276	497
Hospitals.	MonegarChoultryHospital	4	...	...	3	...	...	3	3	...	1	1	1	2	2	...	2	...	1	1	2	1	1	2	...	14	16	30
	General Hospital ...	2	...	2	...	1	...	1	...	1	...	2	...	...	...	...	...	1	...	...	...	2	...	..	...	12	...	12
	Lock Hospital ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...	...	..	...
	Hospital for Women and Children	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	1	2	...	1	...	...	...	...	1	5	6
	Lying-in Hospital	1	...	...	...	...	...	2	...	...	1	...	1	...	2	...	...	...	...	...	1	...	..	...	...	3	5	8
	Penitentiary Hospital ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lunatic Asylum ...	...	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Royapettah Hospital .	..	1	...	...	...	...	...	1	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	2	2
	Total...	7	1	2	3	1	2	6	4	1	2	3	2	2	4	...	2	2	3	1	4	3	1	2	..	30	28	58
	General Total...	43	37	27	31	20	25	20	22	18	23	18	22	18	26	20	31	16	23	12	24	22	21	17	19	251	304	555

Table XXI.—DEATHS.

APPEN

VITAL

TABLE

Return shewing the Deaths among Hindus in each

Municipal Divisions.	Names of Villages.	January.		Feb.		March.		April.		May.		June.	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
1	Tondiarpettah ...	8	10	15	6	4	1	13	3	7	4	8	6
	Washermenpettah...	73	49	52	44	45	43	40	43	31	26	33	29
	Royapuram ...	34	18	16	20	36	31	24	15	25	15	26	20
	Cashmode ...	26	19	16	16	11	17	14	13	12	9	13	4
	Total...	141	96	99	86	96	92	91	74	75	54	80	59
2	Peddoo Naick's Pettah.	149	139	113	115	104	116	116	103	109	109	72	106
	Big Parcherry...	...	...	...	...	...	...	...	...	...	...	...	...
	John Pereira's Garden	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	149	139	113	115	104	116	116	103	109	109	72	106
3	Moothealpettah ...	54	66	52	61	52	62	44	53	45	50	46	49
	Uttapaulium ...	...	...	...	...	...	...	...	...	...	...	...	...
	Fort Saint George	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	54	66	52	61	52	62	44	53	45	50	46	49
4	Gunpowder Mills ...	...	...	...	...	...	...	...	...	...	1	...	...
	Perambore ...	4	4	9	13	8	4	7	12	19	6	9	3
	Viasarapaudy ...	4	4	2	2	2	3	2	2	1	4	4	4
	Total...	8	8	11	15	10	7	9	14	20	11	13	7
5	Choolay ...	28	19	19	21	17	22	16	30	15	13	17	25
	Pursewalkum	38	29	30	26	30	30	33	23	32	17	24	14
	Pareamettoo	7	7	9	6	5	11	4	10	8	12	9	7
	New Town...	...	1	...	...	1	...	...	...	...	...	...	...
	Vepery ...	...	8	1	2	1	2	1	1	...	1	...	...
	Poodoopettah	6	5	3	2	4	5	3	3	2	2	4	4
	Egmore ...	3	3	5	3	3	3	7	...	2	2	...	11
	Comaleeswarapuram	7	6	4	11	5	1	6	5	2	7	7	7
	Total...	89	78	71	71	66	74	70	72	61	54	61	68
6	Kilpaukum ...	2	...	2	2	8	4	3	4	5	...	1	...
	Chetput ...	...	...	1	...	2	3	...	...	...	2	4	3
	Nungumbaukum ...	8	6	6	3	4	6	13	3	11	7	10	12
	Mackey's Garden...	1	3	1	3	2	3	...	...	2	3	...	2
	Total...	11	9	10	8	16	16	16	7	18	12	15	17
7	Poodoopaukum ...	16	4	13	9	12	13	13	14	10	9	10	12
	Chintadripettah ...	29	29	16	17	23	26	18	23	23	20	13	17
	Narasingapuram ...	3	3	5	1	4	1	1	3	2	3	9	3
	Triplicane ...	33	41	47	46	52	42	34	38	28	44	28	31
	Theroovateeswaranpettah	4	5	6	10	10	12	2	9	2	7	4	1
	Total...	85	82	87	83	101	94	68	87	65	83	64	64
8	Saint Thomé ...	26	33	31	16	29	23	23	17	21	15	23	14
	Alwarpettah ...	6	9	4	6	3	6	3	2	3	4	3	2
	Royapettah ...	7	6	12	7	7	8	13	4	6	8	3	4
	Meersaib's Pettah ...	3	2	2	3	4	5	4	3	2	1	4	2
	Kistnampettah ...	17	8	4	10	4	4	6	4	6	7	5	1
	Thanampettah ...	6	2	6	7	4	5	2	6	2	15	2	7
	Total...	65	60	59	49	51	51	51	36	40	50	40	30
	General Total...	602	538	502	488	496	512	465	446	433	423	391	400
Hospitals.	Monegar Choultry Hospital ...	18	23	8	17	10	11	6	12	13	6	13	13
	General Hospital ...	12	...	17	...	9	...	9	1	15	2	17	...
	Lock Hospital ...	...	...	...	...	...	1	...	...	...	...	...	...
	Hospital for Women and Children ...	2	1	...	6	...	2	...	2	1	3	1	...
	Lying-in Hospital ...	7	5	1	4	7	1	5	6	8	10	4	2
	Penitentiary Hospital ...	3	...	1	1	...	1	4	...	4	...	...	...
	Lunatic Asylum ...	2	...	2	1	2	...	1	...	1	...	...	1
	Royapettah Hospital ...	3	2	...	2	2	2	2	1	2	4	4	1
	Total...	47	31	29	31	30	18	27	22	44	25	39	17
	General Total...	649	569	531	518	526	530	492	468	477	448	430	417

STATISTICS.

XXI.—DEATHS.

Village of the City of Madras, for the year 1880.

DUS.														
July.		August.		September.		October.		November.		December.		Total.		Total of Males and Females.
M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
14	10	1	3	8	6	5	5	4	7	9	3	96	64	160
30	31	39	39	38	32	39	44	45	37	50	40	515	457	972
23	22	27	23	15	18	15	13	25	12	34	27	300	234	534
18	16	15	11	12	10	14	12	27	15	15	15	193	157	350
85	79	82	76	73	66	73	74	101	71	108	85	1,104	912	2,016
73	108	127	124	105	132	109	118	106	133	122	149	1,305	1,452	2,757
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
73	108	127	124	105	132	109	118	106	133	122	149	1,305	1,452	2,757
41	40	52	60	56	56	57	73	43	59	86	84	628	713	1,341
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
41	40	52	60	56	56	57	73	43	59	86	84	628	713	1,341
...	...	...	...	...	...	...	...	...	...	...	...	...	1	1
14	12	9	8	10	7	8	6	5	12	9	11	111	98	209
1	2	5	9	...	3	3	3	3	1	...	2	27	39	66
15	14	14	17	10	10	11	9	8	13	9	13	138	138	276
24	29	33	22	24	18	19	13	26	25	20	19	258	256	514
34	27	27	22	23	23	19	34	30	29	29	31	349	305	654
8	5	8	7	4	8	9	11	4	2	11	4	86	90	176
...	...	...	...	...	...	...	...	...	...	...	...	1	1	2
...	4	1	2	4	1	1	4	3	4	2	1	14	30	44
2	4	5	6	11	3	2	2	8	3	3	7	53	46	99
2	4	6	4	3	6	3	4	1	6	6	5	41	51	92
4	1	5	8	4	3	6	9	7	12	9	7	66	77	143
74	74	85	71	73	62	59	77	79	81	80	74	868	856	1,724
2	3	4	...	3	2	1	3	2	3	2	...	35	21	56
2	1	...	1	5	3	2	3	3	2	3	1	22	19	41
10	4	8	4	6	3	6	6	4	2	8	10	94	66	160
1	2	...	...	3	...	1	2	1	5	4	1	16	24	40
15	10	12	5	17	8	10	14	10	12	17	12	167	130	297
5	7	17	9	10	11	14	13	17	13	19	9	156	123	279
22	26	24	25	23	22	21	21	20	21	26	28	258	275	533
5	5	6	3	2	1	1	2	2	5	3	1	43	31	74
28	38	41	40	32	31	35	28	34	36	42	39	434	454	888
2	7	4	11	4	2	3	6	4	2	5	4	50	76	126
62	83	92	88	71	67	74	70	77	77	95	81	941	959	1,900
35	19	17	28	31	21	19	24	22	24	30	32	307	266	573
4	4	4	3	4	4	2	4	2	2	9	4	47	50	97
7	5	6	5	4	8	5	2	4	4	9	9	83	70	153
1	4	3	1	2	2	1	2	1	2	7	3	34	30	64
6	4	5	4	7	5	9	1	5	5	5	3	79	56	135
5	3	8	4	6	7	4	9	6	5	2	9	53	79	132
58	39	43	45	54	47	40	42	40	42	62	60	603	551	1,154
423	447	507	486	459	448	433	477	464	488	579	558	5,754	5,711	11,465
8	13	5	6	15	17	17	20	20	15	10	20	143	173	316
7	...	7	...	12	...	11	...	12	...	13	...	141	3	144
...	...	...	...	...	...	...	...	...	...	...	...	...	1	1
...	1	...	...	...	2	...	1	...	4	1	6	5	27	32
2	1	1	1	5	3	...	4	1	2	3	4	44	43	87
1	...	...	...	...	...	1	...	...	...	...	...	14	2	16
2	2	1	1	3	...	1	...	1	...	1	1	17	6	23
...	1	3	3	2	1	4	1	2	3	2	4	26	25	51
20	18	17	11	37	23	34	26	36	24	30	35	390	280	671
443	465	524	497	496	471	467	503	500	512	609	593	6,144	5,991	12,135

VITAL STATISTICS.

TABLE XXII.—DEATHS.

Return shewing the Deaths among Mahomedans in each Village of the City of Madras, for the year 1880.

Municipal Divisions.	Names of Villages.	Mahomedans. January. M	January. F	February. M	February. F	March. M	March. F	April. M	April. F	May. M	May. F	June. M	June. F	July. M	July. F	August. M	August. F	September. M	September. F	October. M	October. F	November. M	November. F	December. M	December. F	Total. M	Total. F	Total of Males and Females.
1	Tondiarpettah ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Washermenpettah ..	2	4	4	4	3	5	3	3	4	7	4	7	5	2	1	4	4	3	7	1	4	1	2	1	43	42	85
	Royapuram ..	1	4	1	1	1	6	2	6	..	4	2	..	2	3	2	1	2	1	1	..	4	3	3	2	21	31	52
	Cashmode ..	4	8	4	1	4	4	2	4	1	1	4	4	5	8	3	2	2	..	2	7	2	3	3	4	36	46	82
	Total..	7	16	9	6	8	15	7	13	5	12	10	11	12	13	6	7	8	4	10	8	10	7	8	7	100	119	219
2	Peddoo Naick's Pettah ..	...	...	2	6	2	...	4	..	4	2	2	2	2	3	1	2	2	1	1	2	1	3	1	1	22	22	44
	Big Parcherry ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...
	John Pereira's Garden ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...
	Total..	...	...	2	6	2	...	4	...	4	2	2	2	2	3	1	2	2	1	1	2	1	3	1	1	22	22	44
3	Moothealpettah ..	10	17	14	17	23	13	10	10	15	13	15	17	7	8	15	9	13	13	14	12	14	10	13	20	163	159	322
	Uttapaulium ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...
	Fort Saint George ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...
	Total..	10	17	14	17	23	13	10	10	15	13	15	17	7	8	15	9	13	13	14	12	14	10	13	20	163	159	322
4	Gunpowder Mills ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...
	Perambore ..	3	6	4	1	2	3	4	2	2	3	2	3	1	2	1	2	2	..	3	5	..	1	5	4	29	32	61
	Vissarapaudy ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...
	Total..	3	6	4	1	2	3	4	2	2	3	2	3	1	2	1	2	2	..	3	5	..	1	5	4	29	32	61
5	Choolay ..	..	2	..	1	1	...	1	3	..	2	1	2	..	3	1	1	1	..	1	2	..	1	1	..	7	17	24
	Pursewalkum ..	1	..	..	..	2	1	..	..	1	3	1	1	..	1	1	..	..	1	..	..	..	1	2	..	8	8	16
	Pareamettoo ..	1	..	1	..	..	2	2	2	..	..	..	1	1	1	2	..	2	2	..	1	3	..	..	1	12	10	22
	New Town ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...
	Vepery ..	..	1	..	3	..	..	2	1	1	2	1	1	..	..	1	..	1	2	..	..	..	..	..	..	6	9	15
	Poodoopettah ..	3	..	3	2	1	1	1	2	1	3	..	..	1	..	..	..	..	1	1	..	2	..	1	3	14	12	26
	Egmore ..	1	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	..	1	1	..	..	..	..	..	2	3	5
	Comaleeswarapuram ..	..	1	..	..	..	..	..	1	..	..	..	..	1	..	1	..	..	..	..	..	..	..	1	..	3	3	6
	Total..	6	4	4	6	4	4	6	10	3	10	3	5	3	5	6	2	4	7	3	3	5	2	5	4	52	62	114
6	Kilpaukum ..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
	Chetput ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	...	1
	Nungumbaukum ..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	..	..	..	..	..	2	2
	Mackey's Garden ..	..	..	..	..	1	..	..	..	2	..	..	1	..	1	..	..	..	..	..	..	1	..	..	..	4	2	6
	Total..	..	...	1	..	1	..	..	..	2	..	..	2	..	1	...	..	..	..	..	1	1	..	1	..	6	4	10
7	Poodoopaukum ..	1	6	7	9	5	6	1	5	2	6	4	2	1	1	1	1	2	2	..	1	4	1	2	2	30	42	72
	Chintadripettah ..	1	..	..	...	..	1	1	2	..	..	1	..	1	..	1	1	..	..	..	1	..	..	..	1	5	6	11
	Narasingapooram ..	..	..	..	2	..	..	..	..	1	1	1	1	1	..	1	1	1	..	..	..	2	..	2	..	9	5	14
	Triplicane ..	27	27	29	21	33	37	35	43	33	32	27	14	20	24	21	19	21	22	20	20	18	21	23	23	307	303	610
	Theeroovateeswaranpettah ..	4	2	2	..	4	4	6	2	2	3	3	2	4	1	3	2	1	3	...	4	1	3	3	2	33	28	61
	Total..	33	35	38	32	42	48	48	52	38	42	36	19	27	26	27	24	25	27	20	26	25	25	30	28	384	384	768
8	Saint Thomé ..	2	4	3	1	3	4	2	1	2	1	2	4	1	2	3	3	1	2	3	1	3	1	2	2	27	26	53
	Alwarpettah ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...
	Royapettah ..	1	..	..	3	4	3	2	2	4	..	..	..	1	1	2	2	..	2	2	..	..	2	2	3	18	18	36
	Meer Saib's Pettah ..	1	1	1	3	2	5	1	2	1	2	6	2	2	2	4	1	2	4	..	1	3	..	3	1	26	24	50
	Kistnampettah ..	1	..	..	1	1	1	2	1	1	2	..	1	1	..	..	1	1	2	..	1	..	..	1	..	8	10	18
	Thanampettah ..	..	..	1	1	..	..	1	..	..	..	..	..	..	..	1	..	..	..	..	..	1	1	..	..	4	2	6
	Total..	5	5	5	9	10	13	8	6	8	5	8	7	5	5	10	7	4	10	5	3	7	4	8	6	83	80	163
	General Total...	64	83	77	77	92	96	82	93	77	87	76	66	57	63	66	53	58	62	56	60	63	52	71	70	839	862	1,701
Hospitals.	Monegar Choultry Hospital ..	1	..	1	..	2	..	1	..	1	1	1	1	1	2	1	1	3	1	1	1	1	1	1	..	15	8	23
	General Hospital ..	1	..	1	..	..	..	..	..	1	..	..	..	6	..	1	..	2	..	..	..	..	..	..	..	12	...	12
	Lock Hospital ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	...	...
	Hospital for Women and Children ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Lying-in Hospital ..	...	..	..	..	..	..	..	1	1	1	1	..	..	..	..	..	1	1	..	1	..	..	1	..	4	4	8
	Penitentiary Hospital ..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1
	Lunatic Asylum ..	..	..	1	..	...	...	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	...	1
	Royapettah Hospital ..	..	2	..	1	..	..	..	1	1	1	..	..	..	..	..	..	1	..	1	..	..	1	1	2	4	8	12
	Total..	3	2	3	1	2	..	1	2	4	3	2	1	7	2	2	1	7	2	2	2	1	2	3	2	37	20	57
	General Total..	67	85	80	78	94	96	83	95	81	90	78	67	64	65	68	54	65	64	58	62	64	54	74	72	876	882	1,758

APPENDIX V.

VITAL STATSITICS.

TABLE XXIII.—DEATHS.

Return shewing the total Deaths among all Classes in each Village of the City of Madras, for the year 1880.

Municipal Divisions.	Names of Villages.	Population.	Europeans.		East Indians.		Native Christians.		Hindus.		Mahomedans.		Total		Total of Males and Females.	Ratio per 1,000 of Population.
			M	F	M	F	M	F	M	F	M	F	M	F		
1	Tondiarpettah	35,240	...	...	...	...	...	1	96	64	...	...	96	65	161	29·7
	Washermenpettah	6,409	...	1	...	2	7	9	515	457	43	42	565	511	1,076	
	Royapuram	11,089	7	1	7	12	26	35	300	234	21	31	361	313	674	60·7
	Cashmode	12,383	...	1	...	1	22	22	193	157	36	46	251	227	478	38·6
	Total...	65,121	7	3	7	15	55	67	1,104	912	100	119	1,273	1,116	2,389	36·6
2	Peddoo Naick's Pettah	65,629	...	2	14	13	9	8	1,305	1,452	22	22	1,350	1,497	2,847	43·4
	Big Parcherry	5,179	...	...	4	4	1	3	...	...	...	...	5	7	12	2.3
	John Pereira's Garden	2,930	...	...	...	...	3	1	...	...	...	...	3	1	4	1·3
	Total...	73,738	...	2	18	17	13	12	1,305	1,452	22	22	1,358	1,505	2,863	38·8
3	Moothealpettah	32,062	11	4	28	30	32	40	628	713	163	159	862	946	1,808	56·3
	Uttapaulium	18,895	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Fort Saint George	1,588	3	1	...	...	...	...	...	...	...	...	3	1	4	2·5
	Total...	52,545	14	5	28	30	32	40	628	713	163	159	865	947	1,812	34·4
4	Gunpowder Mills	641	1	...	...	...	...	...	...	1	...	...	1	1	2	3·1
	Perambore	5,650	3	2	11	11	2	2	111	98	29	32	156	145	301	53·0
	Viasarapaudy	3,500	...	...	...	...	...	...	27	39	...	...	27	39	66	18·8
	Total...	9,791	4	2	11	11	2	2	138	138	29	32	184	185	369	37·6
5	Choolay	15,000	...	...	...	...	..	3	258	256	7	17	265	276	541	36·0
	Pursewalkum	19,006	1	...	10	14	25	25	349	305	8	8	393	352	745	39·1
	Pareamettoo	11,275	2	...	12	9	9	13	86	90	12	10	121	122	243	24·3
	New Town		1	1	7	8	3	9	1	1	...	...	12	19	31	
	Vepery	4,500	2	2	8	14	6	5	14	30	6	9	36	60	96	21·3
	Poodoopettah...	3,774	2	...	5	1	19	20	53	46	14	12	93	79	172	45·5
	Egmore	4,392	4	1	4	4	3	4	41	51	2	3	54	63	117	22·3
	Comaleeswarapuram	7,544	...	...	...	...	...	1	66	77	3	3	69	81	150	
	Total...	65,491	12	4	46	50	65	80	868	856	52	62	1,043	1,052	2,095	31·9
6	Kilpaukum	5,222	...	...	1	...	2	1	35	21	1	...	39	22	61	11·6
	Chetput	2,611	...	...	...	...	...	...	22	19	1	...	23	19	42	16·0
	Nungumbaukum	7,704	1	...	1	...	3	4	94	66	...	2	99	72	171	22·1
	Mackey's Garden	3,853	...	...	...	...	3	11	16	24	4	2	23	37	60	15·5
	Total...	19,390	1	...	2	...	8	16	167	130	6	4	184	150	334	17·2
7	Poodoopaukum	6,087	1	...	2	3	3	4	156	123	30	42	192	172	364	59·7
	Chintadripettah	15,120	4	...	2	9	10	11	258	275	5	6	279	301	580	38·3
	Narasingapuram	3,046	1	1	5	3	3	3	43	31	9	5	61	43	104	34·1
	Triplicane	33,258	1	...	4	1	4	3	434	454	307	303	750	761	1,511	45·7
	Theroovateeswaranpettah	12,057	...	...	1	...	...	...	50	76	33	28	84	104	188	15·5
	Total...	69,568	7	1	14	16	20	21	941	959	384	384	1,366	1,381	2,747	39·4
8	Saint Thomé	20,575	3	2	7	3	17	26	307	266	27	26	361	323	684	35·9
	Alwarpettah	1,163	...	...	...	...	...	..	47	50	...	...	47	50	97	
	Royapettah	5,255	...	1	3	10	3	3	83	70	18	18	107	102	209	39·5
	Meersaib's Pettah	2,050	...	...	...	...	2	2	34	30	26	24	62	56	118	57·5
	Kistnampettah	5,193	...	...	...	...	...	...	79	56	8	10	87	66	153	29·4
	Thanampettah	7,246	...	...	...	...	4	7	53	79	4	2	61	88	149	20·5
	Total...	41,482	3	3	10	13	26	38	603	551	83	80	725	685	1,410	33·9
	General Total...	397,126	48	20	136	152	221	276	5,754	5,711	889	862	6,998	7,021	14,019	35·3
Hospitals.	Monegar Choultry Hospital ...	426	...	...	8	3	14	16	143	173	15	8	180	200	380	892·0
	General Hospital	...	29	2	31	2	12	...	141	3	12	...	225	7	232	...
	Lock Hospital	...	...	...	...	...	...	...	...	1	...	...	...	1	1	...
	Hospital for Women and Children.	...	1	...	3	11	1	5	5	27	...	...	10	43	53	...
	Lying-in Hospital	...	1	1	1	6	3	5	44	43	4	4	53	59	112	...
	Penitentiary Hospital	...	...	...	...	...	...	...	14	2	1	...	15	2	17	...
	Lunatic Asylum	...	...	...	2	1	...	...	17	6	1	...	20	7	27	...
	Royapettah Hospital..	...	...	...	1	...	...	2	26	25	4	8	31	35	66	...
	Total...	426	31	3	46	23	30	28	390	280	37	20	534	354	888	...
	General Total...	397,552	79	23	182	175	251	304	6,144	5,991	876	882	7,532	7,375	14,907	37·4

VITAL STATISTICS.

TABLE XXIV.—DEATHS.

Return shewing the Deaths from Small-pox in each Village of the City of Madras, for the year 1880, arranged according to Months.

Municipal Divisions.	Names of Villages.	Deaths from Small-pox.																										Total of Males and Females.
		January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Total.		
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F.	M	F	M	F.	M.	F.	
1	Tondiarpettah ..	...	..	..	...	...	...	..	1	1	1	...	...	...	...	...	...	2	3	...	1	...	...	...	...	3	6	9
	Washermenpettah ..	3	1	..	1	3	1	1	3	2	1	...	1	1	...	...	...	1	2	2	...	3	2	1	2	17	14	31
	Royapuram ..	2	..	3	3	9	7	1	4	3	..	1	...	1	...	2	1	...	...	1	...	1	1	1	1	25	17	42
	Cashmode ..	...	..	..	1	...	...	..	..	..	..	...	...	...	...	...	...	...	...	1	1	...	1	1	1	2	4	6
	Total..	5	1	3	5	12	8	2	8	6	2	1	1	2	...	2	1	3	5	4	2	4	4	3	4	47	41	88
2	Peddoo Naick's Pettah ..	...	...	2	1	5	9	11	6	7	4	1	3	2	2	7	7	6	7	8	14	2	3	2	7	53	63	116
	Big Parcherry ..	...	..	..	...	...	..	..	..	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	John Pereira's Garden ...	...	..	..	...	...	...	..		..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total..	...	...	2	1	5	9	11	6	7	4	1	3	2	2	7	7	6	7	8	14	2	3	2	7	53	63	116
3	Moothealpettah ..	1	1	1	...	2	1	2	1	3	1	1	...	...	1	3	5	8	3	5	9	2	3	9	9	37	34	71
	Uttapaulium ..	...	..	..	...	...	...	..	..	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Fort Saint George..	...	..	..	...	...	...	..	..	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total..	1	1	1	...	2	1	2	1	3	1	1	...	...	1	3	5	8	3	5	9	2	3	9	9	37	34	71
4	Gunpowder Mills ..	...	..	..	...	...	...	..	..	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Perambore ..	...	1	2	1	..	...	..	..	..	..	...	...	...	...	1	1	1	1	...	...	...	2	...	...	4	6	10
	Viasarapaudy ..	...	..	..	...	...	...	..	..	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total..	...	1	2	1	..	...	..	..	..	..	...	...	...	...	1	1	1	1	...	...	...	2	...	...	4	6	10
5	Choolay ..	...	..	3	...	3	2	4	9	2	1	2	3	1	5	4	4	6	2	2	1	1	2	...	...	28	29	57
	Pursewalkum ..	...	..	1	5	6	7	1	3	3	1	1	1	...	1	1	1	1	1	...	...	...	...	...	...	14	20	34
	Pareamettoo ..	...	..	1	...	1	2	..	3	3	1	...	1	3	1	2	...	...	2	1	1	...	...	...	...	11	11	22
	New Town ..	...	..	..	...	...	..	..	..	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	1
	Vepery ..	...	..	..	...	...	...	...	..	..	..	...	...	...	1	...	...	1	...	...	...	...	...	...	...	...	1	1
	Poodoopettah ..	...	..	..	..	..	1	..	1	..	1	...	...	...	...	...	...	...	...	...	...	2	...	2	1	5	4	9
	Egmore ..	...	..	1	...	...	1	..	..	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	2
	Comaleeswarapooram ..	...	1	1	1	...	...	1	1	..	..	...	...	...	...	...	...	...	...	...	...	1	1	1	1	4	5	9
	Total..	...	1	7	6	10	13	6	17	8	4	3	5	4	8	7	5	8	5	3	2	4	3	3	3	63	72	135
6	Kilpaukum ..	...	..	..	...	...	...	...	..	..	..	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	1
	Chetput ..	...	..	..	...	...	...	..	..	..	..	...	...	...	...	...	1	...	1	...	1	...	...	...	...	...	3	3
	Nungumbaukum ..	...	1	..	...	...	...	...	...	2	..	...	...	...	...	1	...	1	...	...	...	...	...	...	...	4	1	5
	Mackey's Garden ..	...	...	..	...	...	...	..	..	1	2	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	3	4
	Total..	...	1	..	...	...	...	...	..	3	2	...	1	...	...	1	1	1	2	...	1	...	...	...	...	5	8	13
7	Poodoopaukum ..	...	1	1	2	2	5	1	2	1	1	1	1	1	1	2	1	1	2	...	...	4	...	2	1	16	17	33
	Chintadripettah ..	1	..	2	...	4	3	2	2	2	...	2	2	4	5	8	7	4	5		1	1	1	3	5	35	31	66
	Narasingapuram ..	...	...	..	...	...	...	1	3	..	1	...	1	...	...	...	1	...	...	...	...	...	...	1	...	2	6	8
	Triplicane ..	1	2	16	21	21	23	12	10	6	14	5	4	6	...	4	5	4	6	11	6	2	4	1	...	89	95	184
	Teeroovateeswarampettah ..	...	1	..	3	3	2	1	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	6	7	13
	Total..	2	4	19	26	30	33	17	18	9	16	9	8	11	6	14	14	9	13	13	7	7	5	8	6	148	156	304
8	Saint Thomé ..	2	1	5	...	2	5	5	3	4	4	3	1	4	2	2	2	...	...	...	...	...	1	...	1	27	20	47
	Alwarpettah ..	...	..	..	...	1	..	1	1	..	..	1	1	1	..	1	...	...	1	1	...	...	...	...	...	6	3	9
	Royapettah ..	...	..	2	2	4	2	3	2	2	1	...	...	...	...	...	...	...	1	...	...	...	...	1	...	12	8	20
	Meersaib's Pettah..	...	..	1	1	2	2	2	..	..	..	2	...	...	...	...	...	...	...	...	...	...	...	...	...	7	3	10
	Kistnampettah ..	...	..	..	3	3	3	3	3	..	1	...	...	...	...	...	1	...	...	...	...	...	...	1	...	7	11	18
	Thanampettah ..	1	1	..	...	1	...	1	1	1	1	...	1	...	...	4	1	3	5	1	3	...	1	...	...	12	14	26
	Total..	3	2	8	6	13	12	15	10	7	7	6	3	5	2	7	4	3	7	2	3	...	2	2	1	71	59	130
	General Total..	11	11	42	45	72	76	53	60	43	36	21	21	24	19	42	38	39	43	35	38	19	22	27	30	428	439	867
Hospitals.	Monegar Choultry Hospital ..	...	..	..	...	...	...	...	...	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..
	General Hospital ..	...	..	..	...	...	...	..	..	..	..	...	...	...	...	2	...	...	...	...	...	...	...	...	...	2	...	2
	Lock Hospital ...	...	..	..	...	...	...	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hospital for Women and Children ..	...	..	..	...	...	...	...	...	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	..	...
	Lying-in Hospital..	...	..	..	...	...	...	...	..	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Penitentiary " ..	...	..	..	...	...	...	..	..	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lunatic Asylum ..	...	..	..	...	...	...	..	..	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Royapettah Hospital	...	..	..	...	...	...	..	..	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total..	...	..	..	...	...	...	...	...	...	..	...	...	...	...	2	...	...	...	...	...	...	...	...	...	2	..	2
	General Total..	11	11	42	45	72	76	53	60	43	36	21	21	24	19	44	38	39	43	35	38	19	22	27	30	430	439	869

VITAL STATISTICS.

TABLE XXV.—DEATHS.

Return shewing the Deaths from Fevers in each Village of the City of Madras, for the year 1880, arranged according to Months.

Municipal Divisions.	Names of Villages.	Deaths from Fevers.																										Total of Males and Females.
		January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Total.		
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
1	Tondiarpettah ...	6	4	7	2	1	1	8	2	4	1	4	1	6	5	1	1	2	2	1	2	3	2	2	2	45	25	70
	Washermenpettah...	28	17	26	13	17	19	14	11	7	11	11	12	12	13	15	12	11	12	15	13	15	10	18	9	184	152	336
	Royapuram ...	8	8	6	4	10	9	11	6	4	5	12	10	8	7	12	6	6	8	3	6	6	5	9	10	95	84	179
	Cashmode ...	10	16	10	7	9	7	7	5	6	8	14	6	13	12	8	10	8	7	9	9	13	4	13	9	120	100	220
	Total...	52	45	49	26	37	36	40	24	21	25	41	29	39	37	36	29	27	29	28	30	37	21	37	30	444	361	805
2	Peddoo Naick's Pettah	43	44	24	36	30	29	38	27	25	39	22	31	16	32	30	26	24	37	23	21	18	30	26	41	319	393	712
	Big Parcherry ...	...	...	...	1	1	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	1	1	2
	John Pereira's Garden	...	1	...	...	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1
	Total...	43	45	24	37	31	29	38	27	25	39	22	31	16	32	30	26	24	37	23	21	18	30	26	41	320	395	715
3	Moothealpettah ...	15	16	12	14	15	30	12	16	15	24	8	22	12	17	11	16	15	18	12	20	16	18	20	21	163	232	395
	Uttapaulium ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Fort Saint George...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	15	16	12	14	15	30	12	16	15	24	8	22	12	17	11	16	15	18	12	20	16	18	20	21	163	232	395
4	Gunpowder Mills ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Perambore ...	2	3	1	2	5	2	6	5	10	3	2	3	2	1	3	...	1	1	2	2	1	2	4	5	39	29	68
	Viasarapaudy ...	2	2	...	...	...	2	1	1	...	3	...	2	...	1	...	2	...	1	1	1	...	1	...	1	4	17	21
	Total...	4	5	1	2	5	4	7	6	10	6	2	5	2	2	3	2	1	2	3	3	1	3	4	6	43	46	89
5	Choolay ...	5	3	2	3	2	5	2	6	2	3	6	6	3	5	6	4	1	5	5	1	8	7	7	3	49	51	100
	Pursewalkum ...	6	2	8	10	12	9	11	11	11	9	6	6	6	3	5	3	8	7	3	6	10	7	11	5	97	78	175
	Pareamettoo ...	2	2	2	3	2	5	2	2	2	4	4	1	3	3	4	2	3	3	1	3	...	1	5	2	30	31	61
	New Town ...	...	1	...	1	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1	3	4
	Vepery ...	...	3	2	2	...	2	3	1	1	2	2	1	...	1	1	2	1	1	1	...	3	1	1	2	15	18	33
	Poodoopettah ...	2	4	...	2	1	...	1	1	1	3	3	1	...	1	4	...	2	...	2	2	1	1	...	2	17	17	34
	Egmore ...	...	...	...	...	1	1	1	...	...	1	...	3	...	2	2	2	3	1	...	1	...	2	2	...	9	13	22
	Comaleeswarapooram ...	3	1	1	3	1	...	1	...	2	4	3	3	1	...	2	...	...	1	2	2	...	1	3	...	19	15	34
	Total...	18	16	15	24	20	22	21	21	19	26	24	21	13	15	24	14	18	18	14	15	22	20	29	14	237	226	463
6	Kilpaukum ...	1	...	1	2	1	2	...	1	...	...	...	...	...	...	...	...	1	...	...	1	...	...	...	...	4	6	10
	Chetput ...	...	...	1	...	...	1	...	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...	1	...	3	2	5
	Nungumbaukum ...	2	2	1	1	2	1	3	1	6	2	6	3	6	...	1	1	...	1	...	2	1	...	1	2	29	16	45
	Mackey's Garden ...	...	1	1	...	1	...	...	...	1	1	...	1	...	1	...	..	...	...	1	1	2	3	2	...	8	8	16
	Total...	3	3	4	3	4	4	3	2	7	4	6	4	6	1	1	1	2	1	1	4	3	3	4	2	44	32	76
7	Poodoopaukum ...	11	2	1	3	4	5	5	8	2	6	3	1	2	...	2	2	2	3	3	2	6	4	6	5	47	41	88
	Chintadripettah ...	6	4	4	3	4	8	2	7	7	10	2	1	4	6	6	5	3	2	5	6	2	8	3	4	48	64	112
	Narasingapooram ...	1	1	2	...	3	...	...	1	...	...	4	1	2	3	2	2	1	1	...	...	1	3	3	...	19	12	31
	Triplicane ...	21	16	14	13	16	12	12	19	15	17	15	16	7	14	11	8	8	10	6	6	7	10	10	9	142	150	292
	Teeroovateeswaranpettah ...	3	2	...	1	3	5	1	3	...	1	4	2	2	3	4	5	1	...	...	2	...	...	2	...	20	24	44
	Total...	42	25	21	20	30	30	20	38	24	34	28	21	17	26	25	22	15	16	14	16	16	25	24	18	276	291	567
8	Saint Thomé ...	6	20	11	4	15	9	9	7	8	7	9	5	12	9	7	13	15	8	10	6	3	12	12	12	117	112	229
	Alwarpettah ...	1	1	1	2	1	2	1	...	1	1	1	..	1	2	2	...	...	1	...	2	1	...	1	3	11	14	25
	Royapettah ...	2	1	3	2	4	3	2	1	1	2	...	1	4	4	3	2	...	6	3	1	2	...	2	5	26	28	54
	Meersaib's Pettah ..	...	2	2	2	1	2	1	2	2	1	3	1	1	1	1	...	...	...	...	1	1	...	6	3	18	15	33
	Kistnampettah ...	4	2	2	3	1	1	1	...	2	2	1	2	4	1	2	1	...	1	1	...	2	1	1	2	21	16	37
	Thanampettah ...	2	1	1	5	...	...	1	2	1	7	...	..	2	1	3	...	1	1	...	4	2	1	...	4	13	26	39
	Total...	15	27	20	18	22	17	15	12	15	20	14	9	24	18	18	16	16	17	14	14	11	14	22	29	206	211	417
	General Total...	192	182	146	144	164	172	156	146	136	178	145	142	129	148	148	126	118	138	109	123	124	134	166	161	1,733	1,794	3,527
Hospitals.	Monegar Choultry Hospital ...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	1	1	...	...	...	...	...	...	...	2	2	4
	General Hospital ...	1	...	2	...	1	...	...	...	...	...	1	...	...	...	1	...	1	...	...	...	1	...	...	...	8	...	8
	Lock Hospital ...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hospital for Women and Children ...	1	...	...	1	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	4	5
	Lying-in Hospital...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	...	2	2
	Penitentiary „ ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lunatic Asylum ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Royapettah Hospital	...	...	...	...	...	1	...	...	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...	2	1	3
	Total...	2	...	2	1	1	1	...	2	...	...	2	1	1	...	1	2	2	...	1	...	1	...	...	2	13	9	22
	General Total...	194	182	148	145	165	173	156	148	136	178	147	143	130	148	149	128	120	138	110	123	125	134	166	163	1,746	1,803	3,549

VITAL STATISTICS.

TABLE XXVI.—DEATHS.

Return showing the Deaths from Dysentery in each Village of the City of Madras, for the year 1880, arranged according to Months.

Municipal Divisions.	Names of Villages.	Deaths from Dysentery. January. M	January. F.	February. M	February. F.	March. M	March. F.	April. M	April. F.	May. M	May. F.	June. M	June. F.	July. M	July. F.	August. M.	August. F.	September. M	September. F.	October. M.	October. F.	November. M	November. F.	December. M	December. F.	Total. M.	Total. F.	Total of Males and Females.
1	Tondiarpettah ...	...	...	3	2	...	...	..	...	1	1	...	1	4	2	...	...	2	..	1	...	...	1	...	...	11	7	18
	Washermenpettah ...	9	4	5	8	9	5	3	5	8	5	3	2	5	2	4	4	2	3	5	2	2	2	8	7	63	49	112
	Royapurum ...	4	1	1	3	3	3	1	4	1	1	2	2	...	1	3	3	4	4	2	1	3	1	1	3	25	27	52
	Cashmode ...	4	5	6	5	2	5	7	2	5	1	...	...	3	3	1	1	2	1	1	2	1	4	1	3	33	32	65
	Total...	17	10	15	18	14	13	11	11	15	8	5	5	12	8	8	8	10	8	9	5	6	8	10	13	132	115	247
2	Peddoo Naick's Pettah ...	15	9	15	11	9	4	7	8	7	4	4	5	6	11	11	16	8	11	10	14	8	13	14	9	114	115	229
	Big Parcherry ...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	2
	John Pereira's Garden ...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
	Total...	17	9	15	12	9	4	7	8	7	4	4	5	6	11	11	16	8	11	10	14	8	13	14	9	116	116	232
3	Moothealpettah ...	4	10	9	10	9	10	3	5	1	3	3	5	4	6	6	4	4	4	5	3	6	6	4	13	58	79	137
	Uttapaulium ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Fort Saint George ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	4	10	9	10	9	10	3	5	1	3	3	5	4	6	6	4	4	4	5	3	6	6	4	13	58	79	137
4	Gunpowder Mills ...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1
	Perambore ...	1	1	3	2	1	1	...	3	2	...	2	1	1	3	2	...	2	2	3	2	1	2	2	3	20	20	40
	Viasarapaudy ...	1	...	1	...	1	1	1	1	...	...	2	1	...	...	2	1	...	1	1	...	...	...	...	...	9	5	14
	Total...	2	1	4	2	2	2	1	4	2	1	4	2	1	3	4	1	2	3	4	2	1	2	2	3	29	26	55
5	Choolay ...	4	2	2	1	1	3	...	1	1	2	1	5	5	...	6	3	2	1	2	2	2	2	2	3	28	25	53
	Pursewalkum ...	7	6	7	7	3	4	3	1	2	4	2	2	6	6	5	6	1	3	4	5	4	9	2	6	46	59	105
	Pareamettoo ...	3	2	1	...	...	4	...	1	5	2	1	1	2	2	...	1	3	...	4	1	1	1	2	3	22	18	40
	New Town ...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1
	Vepery ...	...	2	...	...	...	...	...	...	...	1	1	...	...	1	...	...	...	...	...	...	...	...	1	...	2	4	6
	Poodoopettah ..	5	2	3	1	1	...	...	...	...	...	2	1	3	2	...	1	2	2	...	...	...	1	...	1	16	11	27
	Egmore ...	1	...	...	...	1	...	...	...	1	1	1	...	1	1	1	...	...	1	...	...	...	1	...	...	6	4	10
	Comaleeswarapuram ...	1	...	1	...	...	...	...	...	...	...	3	1	4	...	1	3	1	...	1	...	1	1	1	3	14	8	22
	Total...	21	15	14	9	6	11	3	3	9	10	11	10	21	12	13	14	9	7	11	8	8	15	8	16	134	130	264
6	Kilpaukum ...	1	...	1	...	2	...	1	...	1	...	...	...	1	..	...	...	...	...	1	...	1	2	1	...	10	2	12
	Chetput ...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	2	...	...	1	2	...	...	...	5	1	6
	Nungumbaukum ...	1	1	...	...	...	1	3	1	...	1	1	...	1	...	1	3	1	...	1	2	...	...	1	1	10	10	20
	Mackey's Garden ...	1	...	...	...	...	...	...	...	...	...	...	1	1	1	...	1	...	...	...	2	...	...	1	...	3	5	8
	Total...	3	1	1	...	3	1	4	1	1	1	1	1	3	1	1	4	3	..	2	5	3	2	3	1	28	18	4
7	Poodoopaukum ...	1	1	1	...	...	...	...	1	...	...	1	2	1	1	2	1	3	...	3	1	1	4	2	2	15	13	28
	Chintadripettah ...	4	3	1	2	5	2	...	3	4	1	2	3	3	1	1	4	...	1	...	1	4	4	2	2	26	27	53
	Narasingapurum ...	2	...	2	...	...	1	...	...	2	1	1	...	...	2	2	...	2	...	...	...	...	...	...	...	11	4	15
	Triplicane ...	4	7	6	2	6	6	7	6	8	10	8	1	6	4	4	9	6	5	4	4	6	5	7	10	72	69	141
	Theeroovateeswaranpettah...	...	1	1	1	2	...	1	2	...	...	..	...	2	...	...	2	..	...	...	2	2	1	...	1	8	10	18
	Total...	11	12	11	5	13	9	8	12	14	12	12	6	12	8	9	16	11	6	7	8	13	14	11	15	132	123	255
8	Saint Thomé ...	5	3	4	2	1	4	...	...	4	3	3	3	5	5	5	4	2	3	2	6	7	3	3	2	41	38	79
	Alwarpettah ...	1	1	...	1	...	...	...	...	...	2	...	...	1	2	...	1	...	2	...	1	...	1	3	...	5	11	16
	Royapettah ...	1	1	...	...	...	1	1	...	3	...	...	1	..	1	...	...	1	...	1	...	...	2	2	2	9	8	17
	Meersaib's Pettah ...	1	...	...	1	1	1	...	...	2	...	2	...	...	2	2	...	1	...	1	1	...	1	1	...	11	6	17
	Kistnampettah ...	4	2	1	2	1	...	...	...	...	1	1	...	1	2	1	1	3	3	4	...	...	1	...	...	16	12	28
	Thanampettah ...	...	...	...	...	...	...	...	...	...	3	1	2	1	1	1	...	1	...	2	2	1	1	1	3	8	12	20
	Total...	12	7	5	6	3		1	...	9	9	7	6	8	13	9	6	8	8	10	10	8	9	10	7	90	87	177
	General Total...	87	65	74	62	59	56	38	44	58	48	47	40	67	62	61	69	55	47	58	55	53	69	62	77	719	694	1,413
Hospitals.	Monegar Choultry Hospital..	6	2	4	3	1	...	2	3	4	...	...	2	3	4	1	1	3	3	2	1	5	5	...	1	31	25	56
	General Hospital ...	1	...	5	...	2	...	1	...	4	...	3	...	..	...	2	...	4	...	3	...	3	...	4	...	32	...	32
	Lock Hospital ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hospital for Women and Children ...	..	...	...	...	...	2	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4	4
	Lying-in Hospital ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1	1
	Penitentiary Hospital ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Lunatic Asylum ...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	1	...	...	...	...	...	...	...	...	...	1	2	3
	Royapettah Hospital ...	...	...	...	...	1	...	...	...	...	1	...	...	...	...	...	1	...	...	2	...	...	...	1	1	4	3	7
	Total...	7	2	9	4	3	2	3	4	9	1	3	3	3	5	4	2	7	3	7	2	8	5	5	2	68	35	103
	General Total...	94	67	83	66	62	58	41	48	67	49	50	43	70	67	65	71	62	50	65	57	61	74	67	79	787	729	1,516

VITAL STATISTICS.

TABLE XXVII.—DEATHS.

Return shewing the Deaths from Diarrhœa in each Village of the City of Madras, for the year 1880, arranged according to Months.

Municipal Divisions.	Names of Villages.	Deaths from Diarrhœa. January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Total.		Total of Males and Females.
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	
1	Tondiarpettah	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	1
	Washermenpettah ...	3	3	...	1	1	1	...	...	...	1	...	...	...	1	1	2	1	1	...	...	2	...	...	...	8	10	18
	Royapooram	...	...	1	...	...	...	1	2	2	1	1	1	1	2	2	1	...	1	1	1	1	...	3	...	13	9	22
	Cashmode	1	1	...	...	1	...	...	...	...	...	...	...	...	...	...	1	1	1	...	...	...	...	1	1	4	4	8
	Total...	4	4	1	1	2	1	1	2	2	2	1	1	1	3	3	4	2	3	1	1	3	...	5	1	26	23	49
2	Peddoo Naick's Pettah ...	5	8	10	14	3	5	5	3	8	4	1	6	7	7	12	5	3	7	4	6	2	7	2	11	62	83	145
	Big Parcherry	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1
	John Pereira's Garden ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	5	8	10	15	3	5	5	3	8	4	1	6	7	7	12	5	3	7	4	6	2	7	2	11	62	84	146
3	Moothealpettah	2	6	3	7	...	2	1	...	1	2	2	1	1	1	3	3	2	5	7	2	3	1	8	3	33	33	66
	Uttapaulium	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Fort Saint George ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Total...	2	6	3	7	...	2	1	...	1	2	2	1	1	1	3	3	2	5	7	2	3	1	8	3	33	33	66
4	Gunpowder Mills ...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1
	Perambore	...	...	1	2	...	...	1	1	...	3	...	...	2	1	2	2	1	...	...	3	...	1	2	1	9	14	23
	Vissarapaudy	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	2	2
	Total...	1	...	1	2	...	...	1	1	...	3	...	...	2	1	2	4	1	...	...	3	...	1	2	1	10	16	26
5	Choolay	2	...	1	2	...	...	1	1	3	...	1	2	...	1	6	2	1	1	1	2	1	2	3	2	20	15	35
	Pursewalkum	6	3	4	1	1	1	3	1	5	...	4	...	1	1	3	2	2	2	2	1	3	...	1	1	35	13	48
	Pareamettoo	...	...	...	...	...	1	1	...	...	...	1	...	...	1	1	...	...	...	...	2	...	...	...	...	3	4	7
	New Town	1	1	...	...	1	...	...	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	2	4	6
	Vepery...	...	...	1	1	...	...	...	...	...	1	...	...	1	1	1	...	...	...	...	...	...	...	...	...	3	3	6
	Poodoopettah	...	...	2	1	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	1	...	...	...	5	1	6
	Egmore	1	...	2	...	1	...	...	...	...	...	...	...	...	...	1	2	...	...	...	...	...	...	...	...	5	2	7
	Comaleeswarapuram ...	...	...	...	1	1	...	...	1	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1	...	2	3	5
	Total...	10	4	10	6	4	2	5	4	8	1	6	2	2	5	14	7	3	3	3	5	5	2	5	4	75	45	120
6	Kilpaukum	...	...	...	...	...	...	1	...	1	...	...	...	...	1	...	...	...	...	...	1	1	...	...	...	3	2	5
	Chetput	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	1
	Nungumbaukum	1	...	2	...	...	...	...	...	...	2	...	1	...	...	...	...	1	...	1	...	...	...	...	...	5	3	8
	Mackey's Garden... ...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	1	2	3
	Total..	1	...	2	1	1	...	1	...	1	2	...	1	...	1	...	...	1	1	1	1	1	...	1	...	10	7	17
7	Poodoopaukum	...	...	1	1	...	...	1	...	...	2	...	5	...	...	...	...	...	3	1	1	...	...	1	...	4	12	16
	Chintadripettah	...	2	1	3	2	1	1	1	1	2	...	2	...	1	1	...	2	1	3	1	1	1	3	...	15	15	30
	Narasingapuram ...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	1	1	2
	Triplicane	2	2	...	2	...	3	4	2	5	1	1	1	...	6	1	2	2	3	1	2	2	2	5	6	23	32	55
	Theeroovateeswaranpettah ...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	1	1	1	...	...	...	...	...	1	1	4	5
	Total...	2	4	2	6	2	5	6	3	6	5	1	8	1	7	2	3	5	8	5	4	3	3	9	8	44	64	108
8	Saint Thomé	...	...	...	1	3	1	2	4	1	1	2	2	3	2	...	...	2	...	...	3	1	...	2	5	16	19	35
	Alwarpettah	...	...	2	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	1	3	3	6
	Royapettah	...	...	1	...	...	...	1	1	1	1	2	...	1	...	...	1	...	1	...	...	...	...	...	...	6	4	10
	Meersaib's Pettah ...	...	...	...	...	1	...	...	2	...	1	...	1	...	...	...	...	1	1	...	1	...	...	1	...	3	6	9
	Kistnampettah	1	1	...	1	...	1	...	...	...	1	2	...	...	...	...	...	1	...	...	...	...	...	...	...	4	4	8
	Thanampettah	...	...	1	...	...	1	...	1	...	1	...	...	1	...	...	1	...	...	...	...	...	1	1	...	3	5	8
	Total...	1	1	4	3	4	3	3	8	2	5	6	3	5	2	...	2	4	2	...	4	2	2	4	6	35	41	76
	General Total...	26	27	33	41	16	18	23	21	28	24	17	22	19	27	36	28	21	29	21	26	19	16	36	34	295	313	608
Hospitals.	Monegar Choultry Hospital	1	2	1	3	3	3	1	3	3	4	3	2	1	2	1	1	6	7	9	4	3	4	2	7	34	42	76
	General Hospital ...	7	...	1	...	1	...	...	1	4	...	2	...	2	...	3	...	...	...	...	...	1	...	2	...	23	1	24
	Lock Hospital ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Hospital for Women and Children	1	1	...	1	...	2	...	...	...	...	...	...	1	...	...	...	...	1	...	...	...	2	...	2	2	9	11
	Lying-in Hospital ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Penitentiary Hospital ...	1	...	...	...	...	...	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	3	...	3
	Lunatic Asylum	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	1
	Royapettah Hospital ...	...	...	...	...	1	...	1	1	...	...	2	...	...	...	...	...	...	...	1	.	2	1	1	...	8	2	10
	Total...	10	3	2	4	5	5	3	5	7	4	7	2	6	2	4	1	6	8	10	4	6	7	5	9	71	54	125
	General Total...	36	30	35	45	21	23	26	26	35	28	24	24	25	29	40	29	27	37	31	30	25	23	41	43	366	367	733

VITAL STATISTICS.

Table XXVIII—Deaths.

Return shewing the Deaths from Special and other Diseases among all Classes, for the year 1880, arranged according to Age and Division.

Months.	Divisions.	Class.										Cause of Death.											
		Europeans.		East Indians.		Native Christians.		Hindus.		Mahomedans.		Cholera.		Small-pox.		Measles.		Fevers.		Dysentery.		Diarrhœa.	
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
January 1880.	1st Division. ...	...	...	3	1	11	10	159	119	8	16	...	...	5	1	...	...	52	45	28	12	5	6
	2nd do ...	4	1	3	1	5	2	161	139	1	...	...	...	...	...	...	...	44	45	18	9	12	8
	3rd do ...	1	...	3	...	8	2	54	66	10	17	...	...	1	1	...	...	15	16	4	10	2	6
	4th do ...	3	...	2	2	...	...	8	8	3	6	...	...	...	1	...	...	4	5	2	1	1	...
	5th do ...	4	...	6	4	7	10	101	84	7	4	...	...	...	1	...	...	19	16	21	15	12	5
	6th do ...	...	...	1	...	2	1	13	9	...	...	...	...	...	1	...	...	3	3	3	1	1	...
	7th do ...	...	...	1	2	7	6	85	82	33	35	...	...	2	4	...	...	42	25	11	12	2	4
	8th do ...	...	...	...	3	8	6	68	62	5	7	...	...	3	2	...	...	15	27	12	7	1	1
	Total...	12	1	19	13	43	37	649	569	67	85	...	...	11	11	...	...	194	182	94	67	36	30
February 1880.	1st Division. ...	...	...	...	...	5	10	107	103	10	6	...	...	3	5	...	...	49	26	19	21	2	4
	2nd do ...	3	...	5	4	3	2	130	115	3	6	...	...	2	1	3	...	26	37	20	12	11	15
	3rd do ...	...	...	4	1	3	2	52	61	14	17	...	...	1	...	1	1	12	14	9	10	3	7
	4th do ...	...	...	1	1	1	1	11	15	4	1	...	...	2	1	...	...	1	2	4	2	1	2
	5th do ...	...	...	5	5	11	10	73	81	4	6	...	...	7	6	...	...	15	25	14	9	10	7
	6th do ...	...	...	...	...	1	1	12	9	2	...	...	...	...	...	...	1	4	3	1	...	2	1
	7th do ...	1	...	3	1	2	2	87	83	38	32	...	...	19	26	3	1	21	20	11	5	2	6
	8th do ...	...	1	1	...	1	3	59	51	5	10	...	...	8	6	...	...	20	18	5	7	4	3
	Total...	4	1	19	12	27	31	531	518	80	78	...	...	42	45	7	3	148	145	83	66	35	45
March 1880.	1st Division. ...	...	...	...	...	6	3	106	103	10	15	...	...	12	8	...	...	37	36	15	13	5	4
	2nd do ...	...	...	6	3	3	...	113	116	2	...	...	...	5	9	2	1	32	29	11	4	4	5
	3rd do ...	...	1	1	4	1	7	52	63	23	13	...	...	2	1	...	1	15	30	9	10	...	2
	4th do ...	...	...	...	...	1	...	10	7	2	3	...	...	...	...	...	...	5	4	2	2	...	...
	5th do ...	1	...	1	7	5	12	73	78	4	4	...	...	10	13	...	1	20	22	6	13	4	4
	6th do ...	...	...	...	...	...	1	18	16	1	...	...	...	...	...	...	1	4	4	3	1	1	...
	7th do ...	1	...	...	...	2	...	101	94	42	48	...	...	30	33	4	5	30	30	13	9	2	5
	8th do ...	...	1	2	2	2	2	53	53	10	13	...	...	13	12	...	...	22	18	3	6	5	3
	Total...	2	2	10	16	20	25	526	530	94	96	...	...	72	76	6	9	165	173	62	58	21	23
April 1880.	1st Division. ...	...	...	...	3	6	10	97	86	8	13	...	...	2	8	1	...	40	24	13	14	2	5
	2nd do ...	...	2	5	2	2	2	125	104	4	...	...	...	11	6	3	1	38	27	8	8	5	4
	3rd do ...	1	...	2	1	2	1	44	53	10	10	...	...	2	1	...	2	12	16	3	5	1	...
	4th do ...	...	...	1	2	...	...	9	14	4	2	...	...	...	...	...	...	7	6	1	4	1	1
	5th do ...	1	1	5	9	7	4	79	80	6	11	...	...	6	17	...	1	21	23	3	4	6	4
	6th do ...	...	...	1	...	...	2	17	7	...	...	...	...	...	...	...	...	3	2	4	1	1	...
	7th do ...	...	...	1	3	2	1	68	87	43	52	...	...	17	18	1	...	20	38	8	12	6	3
	8th do ...	...	...	3	1	1	2	53	37	8	7	...	...	15	10	...	...	15	12	1	...	4	9
	Total...	2	3	18	21	20	22	492	468	83	95	...	...	53	60	5	4	156	148	41	48	26	26
May 1880.	1st Division. ...	1	1	2	3	4	5	88	60	6	13	...	...	6	2	...	...	21	25	19	8	5	6
	2nd do ...	5	1	2	2	1	...	124	111	5	2	...	1	7	4	2	2	25	39	11	4	12	4
	3rd do ...	3	1	2	...	2	2	45	50	15	13	...	...	3	1	...	...	15	24	1	3	1	2
	4th do ...	...	1	...	1	...	...	20	11	2	3	...	...	...	...	...	...	10	6	2	1	...	3
	5th do ...	...	1	5	8	5	5	74	67	4	11	...	...	8	4	...	1	19	26	9	11	8	1
	6th do ...	...	...	1	...	...	1	19	12	2	...	...	...	3	2	2	...	7	4	1	1	1	2
	7th do ...	1	...	1	2	4	3	65	83	38	42	...	...	9	16	2	2	24	34	14	12	6	5
	8th do ...	...	1	2	1	2	7	42	54	9	6	...	...	7	7	...	...	15	20	10	9	2	5
	Total...	10	6	15	17	18	23	477	448	81	90	...	1	43	36	6	5	186	178	67	49	35	28
June 1880.	1st Division. ...	...	...	...	3	2	4	93	72	11	12	...	...	1	1	1	...	41	30	5	7	4	3
	2nd do ...	2	...	6	1	2	1	89	106	2	2	...	...	1	3	...	...	23	31	7	5	3	6
	3rd do ...	1	1	1	1	2	5	46	49	15	17	...	...	1	...	...	...	8	22	3	5	2	1
	4th do ...	1	...	1	1	...	...	13	7	2	3	...	...	...	...	1	...	2	5	4	2	...	...
	5th do ...	4	...	2	3	7	7	66	70	3	5	...	...	3	5	...	...	24	21	11	10	6	2
	6th do ...	1	...	1	...	1	1	15	18	1	2	...	...	...	1	...	...	6	4	1	2	...	1
	7th do ...	1	...	2	1	1	1	64	64	36	19	...	...	9	8	...	1	28	21	12	6	1	8
	8th do ...	1	...	...	2	3	3	44	31	8	7	...	...	6	3	...	...	15	9	7	6	8	3
	Total...	11	1	13	12	18	22	430	417	78	67	...	...	21	21	2	1	147	143	50	43	24	24

VITAL STATISTICS.

TABLE XXVIII—DEATHS.—(*Continued.*)

Return shewing the Deaths from Special and other Diseases among all Classes, for the year 1880, *arranged according to Age and Division.*

Months.	Divisions.	Cause of Death. Injuries. Suicide. M.	Suicide. F.	Wounds M.	Wounds F.	Accident. M.	Accident. F.	Snake-bite. M.	Snake-bite. F.	Killed by Wild Animals M.	Killed by Wild Animals F.	All other Causes. M.	All other Causes. F.	Total. M.	Total. F.	Total of Males and Females.
January 1880.	1st Division	...	...	...	...	1	...	...	...	...	...	95	82	181	146	327
	2nd do	...	...	...	...	1	1	...	...	...	...	99	80	174	143	317
	3rd do	...	...	...	...	2	...	...	...	...	...	52	52	76	85	161
	4th do	...	...	...	...	...	...	...	...	...	...	9	9	16	16	32
	5th do	...	...	...	...	8	1	...	...	...	...	70	64	125	102	227
	6th do	...	...	...	...	...	...	...	...	...	...	9	5	16	10	26
	7th do	...	...	...	...	8	...	...	...	...	...	66	80	126	125	251
	8th do	...	...	...	...	...	3	...	...	...	...	45	38	76	78	154
	Total...	...	...	...	...	10	5	...	...	...	...	445	410	790	705	1,495
February 1880.	1st Div sion	...	...	...	...	...	2	...	...	...	...	49	61	122	119	241
	2nd do	...	...	...	...	5	...	...	...	...	...	77	62	144	127	271
	3rd do	...	...	...	...	1	...	...	...	...	...	46	49	78	81	154
	4th do	...	...	...	...	1	...	...	...	...	...	8	11	17	18	35
	5th do	...	1	...	...	...	1	...	...	...	...	47	58	98	102	195
	6th do	...	...	...	...	1	...	...	1	...	...	7	4	15	10	25
	7th do	...	...	...	...	...	...	...	...	...	...	75	60	131	118	249
	8th do	...	...	...	...	...	2	...	...	...	...	29	29	66	65	131
	Total...	...	1	...	...	8	5	...	1	...	...	338	329	661	640	1,301
March 1880.	1st Division	...	...	...	...	1	1	...	...	...	...	52	59	122	121	243
	2nd do	...	...	...	...	...	...	...	...	...	...	70	71	124	119	243
	3rd do	...	...	...	...	...	...	...	...	...	...	51	44	77	88	165
	4th do	...	...	...	...	...	...	...	...	...	...	6	4	13	10	23
	5th do	...	...	...	...	1	2	...	...	...	...	43	46	84	101	185
	6th do	...	...	...	...	...	...	...	...	...	...	11	11	19	17	36
	7th do	1	1	...	...	1	...	...	...	...	...	65	59	146	142	288
	8th do	...	...	...	...	1	1	...	...	...	...	28	31	67	71	138
	Total...	1	1	...	...	4	4	...	...	...	...	321	325	652	669	1,321
April 1880.	1st Division	...	...	...	...	...	...	...	...	...	...	58	61	111	112	223
	2nd do	1	...	...	...	...	1	...	...	...	...	70	68	136	110	246
	3rd do	...	...	...	...	1	...	...	...	...	...	40	41	59	65	124
	4th do	...	...	...	...	...	...	...	...	...	...	5	7	14	18	32
	5th do	...	1	...	...	2	1	...	...	...	...	60	54	98	105	203
	6th do	...	...	...	...	1	1	...	...	...	...	9	5	18	9	27
	7th do	1	...	...	...	1	3	...	...	...	...	60	69	114	143	257
	8th do	...	...	...	...	1	1	...	...	...	...	29	15	65	47	112
	Total...	2	1	...	...	6	7	...	...	...	...	326	315	615	609	1,224
May 1880.	1st Division	...	...	...	...	...	...	...	...	...	...	50	41	101	82	183
	2nd do	...	1	...	...	...	3	...	...	...	...	80	58	137	116	253
	3rd do	...	...	...	...	...	1	...	...	...	...	47	35	67	66	133
	4th do	...	...	...	...	...	...	...	...	...	...	10	6	22	16	38
	5th do	...	1	...	...	1	...	...	...	...	...	43	48	88	92	180
	6th do	...	...	...	...	...	...	...	...	...	...	8	4	22	13	35
	7th do	...	3	...	...	...	...	...	...	...	...	54	58	109	130	239
	8th do	...	1	...	...	...	1	...	...	...	...	21	26	55	69	124
	Total...	...	6	...	...	1	5	...	...	...	...	313	276	601	584	1,185
June 1880.	1st Division	...	...	...	...	1	1	...	...	...	...	53	49	106	91	197
	2nd do	...	...	...	...	1	...	...	...	...	...	66	65	101	110	211
	3rd do	...	...	...	...	1	...	...	...	...	...	50	45	65	73	138
	4th do	...	...	...	...	...	...	...	...	...	...	10	4	17	11	28
	5th de	...	...	...	...	...	...	...	...	...	...	40	48	84	86	170
	6th do	...	...	...	...	...	...	...	...	...	...	10	12	17	20	37
	7th do	1	...	...	...	1	...	...	...	...	...	52	41	104	85	189
	8th do	...	...	...	...	2	...	...	...	...	...	18	22	56	43	99
	Total...	1	...	...	...	6	1	...	...	...	...	299	286	550	519	1,069

VITAL STATISTICS.

Table XXVIII—Deaths.—(*Continued*).

Return shewing the Deaths from Special and other Diseases among all Classes, for the year 1880, *arranged according to Age and Division.*

Months.	Divisions.	Age at the time of Death.																			
		Born dead.		Not exceeding 1 year.		1 to 6		6 to 12		12 to 20		20 to 30		30 to 40		40 to 50		50 to 60		Exceeding 60 years.	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
January 1880.	1st Division ...	5	1	64	47	21	17	4	4	5	7	9	13	11	8	18	15	15	11	29	23
	2nd do ...	1	2	61	36	15	16	3	6	8	8	15	10	10	12	15	12	19	7	27	34
	3rd do ...	1	1	29	22	6	10	...	1	1	3	5	10	5	7	7	4	12	4	10	23
	4th do ...	...	1	2	6	1	1	1	...	2	...	...	2	2	2	1	1	2	2	5	1
	5th do ...	10	6	38	38	10	11	1	2	2	5	9	8	7	7	13	7	13	8	22	15
	6th do ...	...	...	5	3	...	1	1	...	...	...	1	2	2	1	2	1	2	2	3	...
	7th do ...	2	...	32	46	18	18	1	6	9	5	9	9	5	6	9	5	19	8	22	22
	8th do ...	1	1	22	21	9	16	2	6	5	4	3	10	13	6	4	4	5	2	12	8
	Total...	20	12	253	214	80	90	13	25	32	32	51	64	55	49	69	49	87	44	130	126
February 1880.	1st Division ...	1	...	41	36	13	20	5	3	4	8	15	8	10	11	7	10	11	13	15	10
	2nd do ...	2	1	51	49	16	17	7	1	3	6	6	10	15	8	13	9	12	3	19	23
	3rd do ...	...	2	30	28	7	11	...	1	1	3	8	6	7	4	4	7	9	3	7	16
	4th do ...	...	1	7	7	2	2	1	...	...	1	...	3	1	1	...	1	2	...	4	2
	5th do ...	1	4	39	32	15	17	3	2	3	5	4	9	...	5	5	6	11	9	12	13
	6th do ...	1	...	5	1	4	1	...	...	...	2	1	2	1	...	3	2	...	...	...	2
	7th do ...	1	1	43	38	25	25	3	4	6	8	8	6	6	3	12	6	15	11	12	16
	8th do ...	2	...	22	15	9	12	3	1	...	3	6	4	3	12	4	6	11	5	6	7
	Total...	8	9	238	206	91	105	22	12	17	36	48	48	43	44	48	47	71	44	75	89
March 1880.	1st Division ...	2	...	34	34	20	20	3	5	5	11	12	15	9	12	6	4	17	4	14	16
	2nd do ...	...	2	49	33	10	24	3	1	4	6	9	11	13	6	12	6	13	8	11	22
	3rd do ...	1	1	38	27	11	21	3	...	1	6	3	6	4	9	3	5	4	5	9	8
	4th do ...	...	...	3	2	2	2	1	...	...	...	1	1	1	1	1	1	2	1	2	2
	5th do ...	10	1	18	20	24	21	...	4	2	6	1	9	8	6	5	5	9	9	7	20
	6th do ...	...	1	6	3	4	2	1	1	...	2	...	1	1	2	2	...	2	...	3	5
	7th do ...	3	...	53	37	24	43	7	5	2	11	10	16	11	6	8	7	16	7	12	10
	8th do ...	...	2	22	16	11	23	3	2	5	6	3	6	3	3	3	2	7	3	10	8
	Total...	16	7	223	172	106	156	21	18	19	48	39	65	50	45	40	30	70	37	68	91
April 1880.	1st Division ...	1	...	37	35	12	21	5	3	3	7	5	9	12	11	5	4	23	10	8	12
	2nd do ...	1	1	45	31	22	15	1	3	6	9	7	12	19	9	9	6	19	4	7	20
	3rd do ...	4	2	18	21	8	9	5	...	...	2	4	6	2	2	6	2	4	8	8	13
	4th do ...	...	1	6	4	2	5	1	2	...	...	...	3	1	2	...	...	2	1	2	...
	5th do ...	7	5	37	40	16	24	5	3	2	4	7	9	5	8	4	6	6	2	9	4
	6th do ...	...	1	6	2	3	2	...	1	1	...	2	...	2	1	2	...	2	1	...	1
	7th do ...	1	...	45	32	30	33	1	6	1	10	4	17	8	5	5	8	10	4	9	28
	8th do ...	...	1	26	12	10	14	3	1	3	4	2	5	3	1	4	1	6	3	8	5
	Total...	14	11	220	177	103	123	21	19	16	36	31	61	52	39	35	27	72	33	51	83
May 1880.	1st Division ...	1	1	29	25	10	7	3	2	3	5	8	12	12	6	10	7	16	4	9	13
	2nd do ...	...	...	44	36	15	17	3	4	4	8	8	14	14	9	16	5	19	13	14	10
	3rd do ...	1	1	29	17	8	9	3	2	...	7	...	6	7	5	7	2	6	8	6	9
	4th do ...	1	...	9	4	6	3	...	...	...	...	1	2	1	1	1	1	1	1	2	4
	5th do ...	11	9	24	27	24	11	2	2	3	5	4	5	4	9	3	6	8	6	5	12
	6th do ...	2	...	6	3	4	5	1	...	..	1	3	1	2	1	2	1	...	...	2	1
	7th do ...	1	2	39	39	18	30	5	2	2	14	7	7	6	8	7	7	10	5	14	16
	8th do ...	...	1	18	16	15	12	3	1	1	2	2	4	1	3	2	9	6	9	7	12
	Total...	17	14	198	167	100	94	20	13	13	42	33	51	47	42	48	38	66	46	59	77
June 1880.	1st Division ...	2	1	31	22	13	9	4	5	4	8	8	11	11	9	11	8	10	6	12	12
	2nd do ...	1	3	29	34	13	18	3	2	2	7	12	11	12	9	9	6	6	7	14	13
	3rd do ...	3	...	29	26	6	7	2	...	2	8	3	8	3	6	5	3	8	2	4	13
	4th do ...	4	...	4	1	4	1	1	1	...	1	...	4	...	3	2	...	...	...	2	...
	5th do ...	8	5	28	18	11	12	3	3	...	5	4	10	4	4	3	7	10	7	13	15
	6th do ...	...	2	7	6	4	...	...	1	...	1	1	4	1	...	2	4	1	...	1	2
	7th do ...	3	3	38	30	19	17	3	2	1	3	7	6	1	10	8	3	9	5	15	6
	8th do ...	...	1	27	12	7	8	1	...	1	6	5	7	3	2	1	1	7	3	4	3
	Total...	21	15	193	149	77	72	17	14	10	39	40	61	35	43	41	32	51	30	65	64

VITAL STATISTICS.

TABLE XXVIII.—DEATHS.—(*Continued.*)

Return shewing the Deaths from Special and other Diseases among all Classes, for the year 1880, *arranged according to Age and Division.*

Months.	Divisions.	Class.										Cause of Death.											
		Europeans.		East Indians.		Native Christians.		Hindus.		Mahomedans.		Cholera.		Small-pox.		Measles.		Fevers.		Dysentery.		Diarrhœa.	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
July 1880.	1st Division...	1	...	1	1	10	8	93	92	18	15	...	...	2	...	...	2	40	37	15	12	2	5
	2nd do ...	1	...	4	2	...	...	80	108	8	3	1	...	2	2	...	1	16	32	6	11	9	7
	3rd do ...	...	...	2	4	3	3	41	40	7	8	...	...	...	1	...	...	12	17	4	6	1	1
	4th do ...	...	...	1	1	...	...	15	14	1	2	...	...	...	...	...	...	2	2	1	3	2	1
	5th do ...	1	1	6	5	4	9	77	76	3	5	...	...	4	8	1	...	13	15	21	12	4	5
	6th do ...	...	...	...	1	...	1	17	12	...	1	...	...	...	...	1	1	6	1	3	2	1	1
	7th do ...	2	...	2	2	...	2	62	83	27	26	...	...	11	6	1	1	17	26	12	8	1	7
	8th do ...	1	...	...	2	1	3	58	40	5	5	...	...	5	2	...	...	24	18	8	13	5	2
	Total...	6	1	16	18	18	26	443	465	64	65	1	...	24	19	3	5	130	148	70	67	25	29
August 1880.	1st Division...	2	...	2	1	6	8	87	82	7	8	...	...	2	1	...	...	36	30	9	9	4	5
	2nd do ...	5	...	5	1	4	4	134	124	2	2	...	...	9	7	2	4	31	26	13	16	15	5
	3rd do ...	...	...	2	4	1	5	52	60	15	9	...	...	3	5	...	1	11	16	6	4	3	3
	4th do ...	...	...	...	...	...	...	14	17	1	2	...	...	1	1	...	...	3	2	4	1	2	4
	5th do ...	1	1	2	3	4	7	86	72	6	2	...	...	7	5	1	...	24	15	13	14	14	7
	6th do ...	...	...	...	...	...	3	13	6	...	...	...	...	1	1	...	...	1	1	2	4	...	...
	7th do ...	...	1	1	1	1	1	92	88	27	24	...	...	14	14	2	5	25	22	9	16	2	3
	8th do ...	1	...	...	...	4	3	46	48	10	7	...	...	7	4	...	1	18	16	9	7	...	2
	Total...	9	2	12	10	20	31	524	497	68	54	...	...	44	38	5	11	149	128	65	71	40	29
September 1880.	1st Division...	1	1	1	1	5	7	88	88	11	5	...	...	3	5	...	...	28	29	13	11	8	11
	2nd do ...	3	...	1	...	2	...	117	132	4	1	...	...	6	7	2	2	25	37	12	11	3	7
	3rd do ...	2	...	2	6	2	5	56	56	13	13	...	...	8	3	...	...	15	18	4	4	2	5
	4th do ...	...	...	2	2	...	1	10	10	2	...	...	...	1	1	...	...	1	2	2	3	1	...
	5th do ...	...	...	3	6	6	5	78	67	5	8	...	...	8	5	...	...	18	18	9	7	3	4
	6th do ...	...	...	...	...	...	3	20	8	...	...	...	...	1	2	...	...	2	1	3	...	1	1
	7th do ...	1	...	...	1	...	1	71	67	25	27	...	...	9	13	2	1	15	16	11	6	5	8
	8th do ...	...	...	...	...	1	1	56	48	5	10	...	...	3	7	...	...	16	17	8	8	4	2
	Total...	7	1	9	16	16	23	496	471	65	64	...	...	39	43	4	3	120	138	62	50	27	37
October 1880.	1st Division...	1	1	1	...	2	9	90	94	11	9	...	...	4	2	...	...	28	30	11	6	10	5
	2nd do ...	4	...	2	2	...	...	120	118	1	2	...	...	8	14	3	2	23	21	13	14	4	6
	3rd do ...	2	1	3	5	2	2	57	73	14	12	...	...	5	9	...	1	12	20	5	3	7	2
	4th do ...	...	1	2	...	...	...	11	9	3	5	...	...	...	...	...	...	3	3	4	2	...	3
	5th do ...	1	1	5	5	5	8	60	82	3	4	...	...	3	2	1	...	14	15	11	9	3	5
	6th do ...	...	...	...	...	1	2	11	14	...	1	...	...	...	1	...	...	1	4	2	5	1	1
	7th do ...	...	...	1	1	...	1	74	70	20	26	...	...	13	7	...	1	14	16	7	8	5	4
	8th do ...	...	...	1	1	2	2	44	43	6	3	...	...	2	3	...	...	15	14	12	10	1	4
	Total...	8	4	15	14	12	24	467	503	58	62	...	...	35	38	4	4	110	123	65	57	31	30
November 1880.	1st Division...	...	...	2	4	6	6	121	86	11	8	...	...	4	4	...	...	37	21	11	13	6	4
	2nd do ...	...	...	2	1	2	...	118	133	1	3	...	...	2	3	1	1	19	30	11	13	3	7
	3rd do ...	3	...	3	3	2	3	43	59	14	10	...	...	2	3	3	1	16	18	6	6	3	1
	4th do ...	...	...	2	7	...	...	8	13	...	1	...	...	...	2	...	...	1	3	1	2	...	1
	5th do ...	...	...	...	...	6	6	80	87	5	2	...	...	4	3	...	...	22	20	8	15	5	4
	6th do ...	...	...	...	...	1	1	11	12	1	...	...	...	...	...	...	...	3	3	3	2	1	...
	7th do ...	...	...	...	1	1	...	77	77	25	25	...	...	7	5	...	2	16	25	13	14	3	3
	8th do ...	...	...	...	1	4	5	42	45	7	5	...	...	...	2	...	...	11	14	8	9	4	3
	Total...	3	...	9	17	22	21	500	512	64	54	...	...	19	22	4	4	125	134	61	74	25	23
December 1880.	1st Division...	1	...	3	1	6	3	118	105	9	7	...	...	3	4	3	...	37	30	10	14	7	8
	2nd do ...	2	...	8	...	1	1	135	149	1	1	...	...	2	7	...	1	26	41	18	9	4	11
	3rd do ...	1	1	3	1	4	3	86	84	13	20	...	...	9	9	...	1	20	21	4	13	8	3
	4th do ...	...	...	1	1	...	...	9	13	5	4	...	...	...	...	...	...	4	6	2	3	2	1
	5th do ...	1	...	7	5	2	6	84	84	6	4	...	...	3	3	1	1	29	16	8	16	5	6
	6th do ...	...	...	1	...	2	...	18	13	1	...	...	...	...	...	...	...	4	2	3	1	1	...
	7th do ...	...	...	2	1	...	3	95	81	30	28	...	...	8	6	2	1	24	18	11	15	9	8
	8th do ...	...	...	2	...	2	3	64	64	9	8	...	...	2	1	...	...	22	29	11	8	5	6
	Total...	5	1	27	9	17	19	609	593	74	72	...	...	27	30	6	4	166	163	67	79	41	43
	General Total.	79	23	182	175	251	304	6,144	5,991	876	882	1	1	430	439	52	53	1,746	1,803	787	729	366	367

VITAL STATISTICS.

Table XXVIII.—Deaths—(*Continued.*)

Return shewing the Deaths from Special and other Diseases among all Classes, for the year 1880, *arranged according to Age and Division.*

Months.	Divisions.	Cause of Death. Injuries. Suicide. M.	Suicide. F.	Wounds. M.	Wounds. F.	Accident. M.	Accident. F.	Snake-bite. M.	Snake-bite. F.	Killed by wild animals. M.	Killed by wild animals. F.	All other causes. M.	All other causes. F.	Total. M.	Total. F.	Total of Males & Females.
July 1880.	1st Division	...	...	...	...	...	...	...	...	...	...	59	60	118	116	234
	2nd do.	...	1	...	...	1	...	...	...	...	...	58	59	98	118	206
	3rd do.	...	...	...	...	...	...	...	...	...	...	36	30	53	55	108
	4th do.	...	...	...	...	...	1	...	...	...	...	12	10	17	17	34
	5th do.	...	2	...	...	...	...	...	...	...	...	48	54	91	96	187
	6th do.	...	...	...	...	...	...	...	...	...	...	6	10	17	15	32
	7th do.	...	...	...	...	...	...	...	...	...	...	51	65	93	113	206
	8th do.	...	...	...	...	...	...	...	...	...	...	23	15	65	50	115
	Total...	...	3	...	...	1	1	...	...	...	...	293	303	547	575	1,122
August 1880.	1st Division	...	...	...	...	...	...	...	...	...	...	53	54	104	99	203
	2nd do.	...	...	...	...	1	...	...	...	...	...	79	73	150	131	281
	3rd do.	...	1	...	...	...	...	...	...	...	...	47	48	70	78	148
	4th do.	...	...	...	...	...	...	...	...	...	...	5	11	15	19	34
	5th do.	...	...	...	...	...	...	...	...	...	...	40	44	99	85	184
	6th do.	...	...	...	...	...	...	...	...	...	...	9	3	13	9	22
	7th do.	...	...	...	...	...	1	...	...	...	...	69	54	121	115	236
	8th do.	...	...	...	...	2	1	...	...	...	...	25	27	61	58	119
	Total...	...	1	...	...	3	2	...	...	...	...	327	314	633	594	1,227
September 1880.	1st Division	...	...	1	...	1	...	...	...	...	...	52	42	106	97	203
	2nd do.	...	...	1	...	2	...	...	...	...	...	76	69	127	133	260
	3rd do.	...	...	...	...	...	...	...	...	...	...	46	50	75	80	155
	4th do.	...	...	...	...	...	...	...	...	...	...	9	7	14	13	27
	5th do.	...	...	...	...	...	...	...	...	...	...	54	52	92	86	178
	6th do.	...	...	...	...	...	...	...	...	...	...	13	7	20	11	31
	7th do.	...	2	...	...	...	...	...	...	...	...	55	50	97	96	193
	8th do.	...	...	...	...	...	...	...	...	...	...	31	25	62	59	121
	Total...	...	2	2	...	3	...	...	...	...	...	336	302	593	575	1,168
October 1880.	1st Division	...	...	...	...	1	2	...	...	...	...	51	68	105	113	218
	2nd do.	...	...	...	...	1	...	...	...	...	...	75	65	127	122	249
	3rd do.	...	...	...	...	...	...	...	...	...	...	49	58	78	93	171
	4th do.	...	...	...	...	...	...	...	...	...	...	9	7	16	15	31
	5th do.	...	1	...	...	...	3	...	...	...	...	42	65	74	100	174
	6th do.	...	...	...	...	...	...	...	...	...	...	8	6	12	17	29
	7th do.	...	...	...	...	1	1	...	...	...	...	55	61	95	98	193
	8th do.	...	...	...	...	...	1	...	...	...	...	23	17	53	49	102
	Total...	...	1	...	...	3	7	...	...	...	...	312	347	560	607	1,167
November 1880.	1st Division	...	...	...	...	1	...	...	...	...	...	81	62	140	104	244
	2nd do.	...	...	...	...	1	...	...	...	...	...	36	83	123	137	260
	3rd do.	...	...	...	...	1	...	...	...	...	...	34	46	65	75	140
	4th do.	...	...	...	...	...	...	...	...	...	...	6	6	8	14	22
	5th do.	...	1	...	...	1	...	...	...	...	...	53	59	93	102	195
	6th do.	...	...	...	...	...	...	...	...	...	...	6	8	13	13	26
	7th do.	...	...	...	...	...	...	...	...	...	...	64	54	103	103	206
	8th do.	...	...	...	...	2	...	...	...	...	...	28	28	53	56	109
	Total...	...	1	...	...	6	...	...	...	...	...	358	346	598	604	1,202
December 1880.	1st Division	...	...	1	...	2	...	...	...	...	...	74	60	137	116	253
	2nd do.	...	...	...	...	...	...	...	...	...	...	97	82	147	151	298
	3rd do.	...	...	...	...	1	...	...	...	...	...	65	62	107	109	216
	4th do.	...	...	...	...	...	...	...	...	...	...	7	8	15	18	33
	5th do.	...	...	...	...	...	2	...	...	...	...	54	55	100	99	199
	6th do.	...	...	...	...	...	...	...	...	...	...	14	10	22	13	35
	7th do.	...	...	...	1	1	...	...	...	...	...	72	64	127	113	240
	8th do.	...	1	...	...	...	2	...	...	...	...	37	28	77	75	152
	Total...	...	1	1	1	4	4	...	...	...	...	420	369	732	694	1,426
	General Total....	4	18	8	1	55	41	...	1	...	...	4,088	3,922	7,582	7,375	14,907

VITAL STATISTICS.

TABLE XXVIII.—DEATHS.—(*Concluded.*)

Return shewing the Deaths from Special and other Diseases among all Classes, for the year 1880, arranged according to Age and Division.

Months.	Divisions.	Age at the time of Death.																			
		Born dead.		Not exceeding 1 year.		1 to 6.		6 to 12.		12 to 20.		20 to 30.		30 to 40.		40 to 50.		50 to 60.		Exceeding 60 years.	
		M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
July 1880.	1st Division.	4	6	43	40	8	19	3	7	7	4	17	10	6	5	9	5	11	5	10	15
	2nd do. ...	1	3	29	33	14	22	4	2	2	8	8	10	10	10	8	7	9	6	8	12
	3rd do. ...	2	3	19	20	8	5	1	3	3	5	2	2	3	2	4	3	4	3	7	9
	4th do. ...	3	...	7	8	2	2	...	...	...	1	2	...	...	...	1	1	...	1	2	4
	5th do. ...	4	3	23	28	20	17	2	3	5	8	8	10	6	9	2	5	9	7	12	6
	6th do. ...	...	...	5	5	6	1	1	1	...	2	...	2	2	1	2	2	...	...	1	1
	7th do. ..	...	4	31	33	20	22	6	5	4	10	2	7	9	8	2	5	9	7	10	12
	8th do. ...	...	...	16	12	14	16	3	1	2	2	3	6	2	3	8	3	8	2	9	5
	Total...	14	19	173	179	92	104	20	22	23	40	42	47	38	8	36	31	50	31	59	64
August 1880.	1st Division.	1	...	38	31	18	16	7	4	5	6	6	7	7	7	9	6	6	6	7	16
	2nd do. ...	6	3	55	42	28	29	2	2	3	10	8	8	11	7	8	6	15	9	14	15
	3rd do. ...	3	4	28	28	18	10	...	2	1	4	2	6	1	4	4	1	5	6	8	13
	4th do. ...	...	1	7	6	4	5	...	...	...	1	1	1	...	...	1	...	1	...	1	5
	5th do. ...	5	4	24	30	31	21	3	4	...	6	4	4	8	3	4	2	6	3	14	8
	6th do. ...	...	...	7	2	3	3	...	...	...	1	...	...	...	3	1	...	2	...	...	...
	7th do. ...	1	1	53	37	20	27	6	1	1	5	4	7	3	6	2	9	14	10	17	12
	8th do. ...	1	...	12	13	16	9	2	1	2	4	3	9	6	6	6	6	8	6	5	4
	Total...	17	13	224	189	138	120	20	14	12	37	28	42	36	36	35	30	57	40	66	73
September 1880.	1st Division.	1	2	27	20	16	19	4	3	3	3	9	11	13	7	11	6	12	15	10	11
	2nd do. ...	7	3	34	44	26	24	2	3	6	12	14	11	9	8	7	5	10	4	12	19
	3rd do. ...	4	4	27	34	9	9	4	...	3	5	3	6	6	4	4	4	8	4	7	10
	4th do. ...	1	...	5	2	3	4	...	...	...	1	1	2	1	1	2	1	...	...	1	2
	5th do. ...	8	10	35	23	19	17	2	1	...	4	4	8	2	7	5	3	7	7	10	6
	6th do. ...	...	1	9	2	4	4	...	...	1	1	1	...	2	...	...	2	1	...	2	1
	7th do. ...	1	3	36	29	19	17	2	4	2	7	1	12	3	8	5	3	13	3	15	10
	8th do. ...	1	...	23	20	10	10	...	3	2	2	2	5	5	6	4	1	10	7	5	5
	Total...	23	23	196	174	106	104	14	14	17	35	35	55	41	41	38	25	61	40	62	64
October 1880.	1st Division.	5	4	30	40	18	14	6	7	4	5	6	11	13	6	6	5	13	6	4	15
	2nd do. ...	5	5	33	37	24	21	5	4	3	11	9	9	4	4	12	4	10	6	17	21
	3rd do. ...	3	3	30	27	11	18	2	5	...	6	3	10	6	5	5	1	12	6	6	12
	4th do. ...	...	1	5	4	3	2	...	1	1	1	...	1	2	2	3	...	1	1	1	2
	5th do. ...	2	3	30	32	15	12	1	4	3	5	4	8	6	11	4	1	4	6	5	18
	6th do. ...	...	...	2	3	5	5	...	1	...	...	...	2	2	1	...	...	3	2	...	3
	7th do ...	2	4	40	30	17	17	1	2	2	9	2	6	2	7	9	2	7	5	13	16
	8th do. ...	1	1	12	15	12	10	...	1	3	3	2	6	5	4	1	2	11	6	6	1
	Total...	18	21	187	188	105	99	15	25	16	40	26	53	40	40	40	15	61	38	52	88
November 1880.	1st Division.	10	5	41	28	21	13	7	4	7	7	8	11	8	9	10	7	13	11	15	9
	2nd do. ...	1	2	51	54	14	20	3	4	5	9	9	5	11	12	7	8	12	5	10	18
	3rd do. ...	2	2	25	19	15	19	...	2	2	1	6	7	1	4	5	1	4	9	5	11
	4th do. ...	...	2	4	4	2	5	1	1	...	1	...	...	...	...	...	...	...	1	1	...
	5th do. ...	1	2	34	32	12	15	2	4	4	5	4	12	10	10	5	5	8	5	13	12
	6th do. ...	...	...	3	6	3	3	2	1	...	1	...	...	...	...	2	...	2	...	1	2
	7th do. ...	5	3	39	26	17	17	5	5	1	7	5	5	4	1	2	8	10	10	15	21
	8th do. ...	1	2	21	19	4	5	2	4	3	3	2	4	3	3	1	9	8	1	8	6
	Total...	20	18	218	188	88	97	22	25	22	34	34	44	37	39	32	38	57	42	68	79
December 1880.	1st Division.	2	5	51	33	15	12	5	2	3	11	8	11	15	17	14	5	17	9	7	11
	2nd do. ...	8	2	35	51	12	26	6	2	2	3	14	12	16	12	14	7	15	11	25	25
	3rd do. ...	1	3	44	31	21	23	2	3	1	6	3	9	8	6	9	2	8	6	10	20
	4th do. ...	1	2	3	4	4	5	...	1	...	...	...	2	4	...	...	1	3	...	...	3
	5th do. ...	7	7	37	31	14	17	1	3	2	4	3	8	3	4	3	8	13	7	17	10
	6th do. ...	...	...	9	6	1	...	1	...	1	1	...	...	1	1	...	...	2	1	7	4
	7th do. ...	7	3	42	30	22	21	4	2	3	7	6	11	6	6	4	3	11	12	22	18
	8th do. ...	...	...	20	17	14	12	2	4	8	6	5	8	9	8	4	4	8	3	9	17
	Total...	26	22	241	203	103	116	21	17	18	34	39	61	62	54	48	30	77	49	97	108
	General Total	214	184	2,564	2,206	1,189	1,280	226	218	215	453	446	652	536	510	510	392	780	474	852	1,006

VITAL STATISTICS.

TABLE XXIX.—DEATHS.

Return shewing the Deaths in the City of Madras, for the year 1880, *arranged according to Weeks.*

Number.	Weeks.	Deaths from								
		Small-pox.	Measles.	Fevers.	Dysentery.	Diarrhœa.	Cholera.	Other Diseases.	Total.	Ratio per Mille per annum.
1	1st to 2nd Jan. 1880. ...	...	...	16	2	1	...	47	66	...
2	3rd to 9th ,, ,, ...	3	...	74	39	11	...	223	350	45·8
3	10th to 16th ,, ,, ...	3	...	72	35	15	...	169	294	38·4
4	17th to 23rd ,, ,, ...	4	...	96	36	9	...	179	324	42·4
5	24th to 30th ,, ,, ...	7	...	97	39	24	...	194	361	47·2
6	31st to 6th Feb. ,, ...	13	...	62	26	18	...	190	309	40·4
7	7th to 13th ,, ,, ...	21	3	67	36	27	...	155	309	40·4
8	14th to 20th ,, ,, ...	14	4	87	43	22	...	175	345	45·2
9	21st to 27th ,, ,, ...	22	2	66	36	14	...	145	285	37·3
10	28th to 5th March ,, ...	40	1	71	31	9	...	141	293	38·3
11	6th to 12th ,, ,, ...	30	5	84	34	8	...	158	319	41·7
12	13th to 19th ,, ,, ...	36	7	79	26	13	...	147	308	40·3
13	20th to 26th ,, ,, ...	26	1	68	20	12	...	129	256	33·4
14	27th to 2nd April ,, ...	36	1	79	28	8	...	163	315	41·2
15	3rd to 9th ,, ,, ...	33	3	69	18	10	...	164	297	38·8
16	10th to 16th ,, ,, ...	24	4	66	24	11	...	150	279	36·5
17	17th to 23rd ,, ,, ...	28	1	78	19	15	...	164	305	39·9
18	24th to 30th ,, ,, ...	21	2	72	24	17	...	144	280	36·6
19	1st to 7th May ,, ...	22	5	75	25	10	...	137	274	35·8
20	8th to 14th ,, ,, ...	25	2	61	19	10	...	118	235	30·7
21	15th to 21st ,, ,, ...	16	2	67	29	20	...	150	284	37·1
22	22nd to 28th ,, ,, ...	12	1	77	35	13	1	128	267	34·9
23	29th to 4th June ,, ...	14	3	74	17	15	...	132	255	33·0
24	5th to 11th ,, ,, ...	11	1	83	20	11	..	157	283	37·0
25	12th to 18th ,, ,, ...	12	...	65	20	14	...	129	240	31·3
26	19th to 25th ,, ,, ...	11	1	60	19	13	...	137	241	31·5
27	26th to 2nd July ,, ...	7	1	68	32	8	...	147	263	34·4
28	3rd to 9th ,, ,, ...	6	2	44	29	11	...	123	215	28·1
29	10th to 16th ,, ,, ...	14	2	68	31	9	...	142	266	34·7
30	17th to 23rd ,, ,, ...	5	2	69	22	20	1	137	256	33·4
31	24th to 30th ,, ,, ...	15	1	63	38	10	...	142	269	35·2
32	31st to 6th Aug. ,, .	14	1	60	23	13	...	138	249	32·5
33	7th to 13th ,, ,, ..	10	1	65	37	16	...	125	254	33·2
34	14th to 20th ,, ,, ...	16	4	72	34	12	...	151	289	37·7
35	21st to 27th ,, ,, ...	25	5	57	36	24	...	154	301	39·4
36	28th to 3rd Sept. ,, ...	24	3	58	23	11	...	151	270	35·3
37	4th to 10th ,, ,, ...	19	2	45	30	16	...	146	258	33·7
38	11th to 17th ,, ,, ...	27	2	66	21	19	...	148	283	37·0
39	18th to 24th ,, ,, ...	18	1	59	38	16	...	151	283	37·0
40	25th to 1st Oct. ,, ...	11	1	71	20	13	...	146	262	34·2
41	2nd to 8th ,, ,, ...	20	4	51	20	11	...	145	251	32·8
42	9th to 15th ,, ,, ...	17	1	60	30	10	...	146	264	34·5
43	16th to 22nd ,, ,, ...	20	1	49	25	10	...	141	246	32·1
44	23rd to 29th ,, ,, ...	13	2	54	28	20	...	182	299	39·1
45	30th to 5th Nov. ,, ...	11	2	49	35	13	...	169	279	36·5
46	6th to 12th ,, ,, ...	5	2	54	26	14	...	166	267	24·9
47	13th to 19th ,, ,, ...	16	5	55	42	12	...	168	298	38·9
48	20th to 26th ,, ,, ...	9	...	62	25	10	...	159	265	34·6
49	27th to 3rd Dec. ,, ...	9	1	68	35	8	...	169	290	37·9
50	4th to 10th ,, ,, ...	3	1	71	27	19	...	174	295	38·6
51	11th to 17th ,, ,, ...	15	4	80	39	18	...	158	314	41·0
52	18th to 24th ,, ,, ...	9	4	82	41	31	...	216	383	50·1
53	25th to 31st ,, ,, ...	27	1	84	29	9		214	364	47·6
	Total...	869	105	3,549	1,516	733	2	8,133	14,907	37·4

TY

7	31
623	24 to 3
5	15

VITAL STATISTICS.

Table XXX.—Deaths.

Return shewing the average Deaths in the City of Madras, for 10 previous years, arranged according to Weeks.

Number.	Weeks.	Deaths from								
		Small-pox	Measles.	Fevers.	Dysentery.	Diarrhœa.	Cholera.	Other Diseases.	Total.	Ratio per Mille per annum.
1	1st to 2nd Jan. 1880.	1·7	...	19·1	11·8	6·1	1·4	47.1	87·2	...
2	3rd „ 9th „ „	6·6	0·2	68·6	35·9	23·3	5·6	178·7	318·9	41·7
3	10th „ 16th „ „	6·7	0·2	67·4	40·3	19·4	6·5	179·3	319·8	41·8
4	17th „ 23rd „ „	9·1	0·3	65·7	36·6	21·6	8·1	180·5	322·0	42·1
5	24th „ 30th „ „	10·3	0·2	64·2	34·2	20·8	6·3	161·7	297·7	38·9
6	31st „ 6th Feb. „	11·5	0·7	58·3	32·0	21·5	5·0	152·1	281·1	36·7
7	7th „ 13th „ „	15·7	0·4	55·4	27·5	16·2	9·2	159·8	284·2	37·1
8	14th „ 20th „ „	16·1	0·6	51·2	30·7	14·7	4·5	154·0	271·8	35·5
9	21st „ 27th „ „	17·8	0·9	54·7	30·3	16·4	6·3	156·8	283·2	37·0
10	28th „ 5th March „	17·2	1·0	52·5	26·1	16·6	5·7	147·3	266·4	34·8
11	6th „ 12th „ „	14·3	0·9	54·9	22·8	17·3	2·9	149·5	262·6	34·3
12	13th „ 19th „ „	20·3	0·4	51·2	21·6	13·1	1·9	149·0	257·5	33·7
13	20th „ 26th „ „	22·0	0·5	52·0	22·3	17·1	3·1	143·8	260·8	34·1
14	27th „ 2nd April „	19·0	1·0	48·6	19·4	15·1	5·1	136·4	244·6	31·9
15	3rd „ 9th „ „	20·3	1·0	49·7	18·0	13·5	3·6	135·3	241·4	31·5
16	10th „ 16th „ „	19·2	1·1	49·5	18·2	13·3	6·3	155·2	262·8	34·1
17	17th „ 23rd „ „	19·1	1·0	49·5	19·2	15·7	3·5	152·8	260·8	34·1
18	24th „ 30th „ „	15·5	1·0	50·0	20·1	14·0	4·8	148·8	254·2	33·2
19	1st „ 7th May „	12·1	1·2	53·4	18·8	14·5	7·8	147·6	255·4	33·4
20	8th „ 14th „ „	13·1	1·4	53·7	15·6	15·9	9·6	152·0	261·3	34·1
21	15th „ 21st „ „	9·1	0·4	48·3	16·9	15·6	10·2	144·0	245·5	32·1
22	22nd „ 28th „ „	9·8	0·5	49·9	22·3	16·9	13·4	151·0	263·8	34·5
23	29th „ 4th June „	9·1	0·5	52·9	22·0	14·3	17·4	153·7	269·9	35·3
24	5th „ 11th „ „	8·7	0·7	54·3	17·2	15·4	21·5	147·7	265·5	34·7
25	12th „ 18th „ „	8·7	0·4	48·9	17·6	14·5	13·0	150·4	253·5	33·2
26	19th „ 25th „ „	6·3	0·1	47·5	20·4	15·3	10·5	146·8	246·9	32·5
27	26th „ 2nd July „	7·5	0·4	47·4	18·3	16·1	12·1	149·5	251·3	32·8
28	3rd „ 9th „ „	4·9	0·3	46·9	21·1	14·8	8·6	147·1	243·7	31·8
29	10th „ 16th „ „	4·6	0·2	45·5	20·0	15·2	8·8	156·6	250·9	32·8
30	17th „ 23rd „ „	8·4	0·2	45·9	21·4	19·0	12·5	159·6	267·0	34·9
31	24th „ 30th „ „	6·0	0·3	47·1	23·4	15·7	13·5	156·4	262·4	34·3
32	31st „ 6th Aug. „	6·2	0·3	47·9	21·8	22·0	16·7	157·3	272·2	35·6
33	7th „ 13th „ „	5·1	0·2	47·7	25·0	21·4	17·0	162·7	279·1	36·5
34	14th „ 20th „ „	8·2	...	52·5	25·2	18·0	16·2	164·9	285·0	37·2
35	21st „ 27th „ „	5·2	...	50·1	28·5	20·8	18·9	156·9	280·4	36·6
36	28th „ 3rd Sep. „	6·2	0·3	53·9	29·8	21·4	21·3	165·0	297·9	38·9
37	4th „ 10th „ „	5·3	0·4	54·7	34·4	17·7	14·1	164·6	291·2	38·0
38	11th „ 17th „ „	3·5	0·2	54·5	31·3	18·7	14·7	161·0	283·9	37·1
39	18th „ 24th „ „	3·5	0·2	55·7	28·7	18·6	9·7	163·9	280·3	36·1
40	25th „ 1st Oct. „	4·8	0·2	55·5	29·4	19·6	8·8	168·3	286·6	37·5
41	2nd „ 8th „ „	4·7	0·3	62·9	24·2	17·2	6·6	158·6	274·5	35·9
42	9th „ 15th „ „	5·1	0·2	53·9	24·6	17·7	5·0	161·9	268·4	35·1
43	16th „ 22nd „ „	3·7	...	54·0	23·0	16·1	6·5	155·5	258·8	33·8
44	23rd „ 29th „ „	4·8	0·1	48·5	23·7	16·2	7·9	158·8	260·0	34·0
45	30th „ 5th Nov. „	5·1	0·2	56·8	25·7	17·5	7·0	168·3	280·6	36·6
46	6th „ 12th „ „	3·8	0·1	54·8	22·3	16·7	7·6	158·4	263·7	34·4
47	13th „ 19th „ „	2·4	0·2	54·4	20·4	18·4	7·8	166·3	269·9	35·0
48	20th „ 26th „ „	4·4	0·2	47·7	24·3	15·4	8·3	167·5	267·8	35·0
49	27th „ 3rd Dec. „	5·0	0·1	54·2	23·7	18·4	12·0	172·5	285·9	37·4
50	4th „ 10th „ „	5·6	...	53·7	25·5	23·6	12·1	168·4	288·9	37·7
51	11th „ 17th „ „	6·3	0·1	54·2	23·4	21·7	13·9	169·3	288·9	37·7
52	18th „ 24th „ „	5·3	0·3	52·9	26·7	21·2	17·5	169·7	293·6	38·4
53	25th „ 31st „ „	7·6	0·3	67·2	43·4	30·5	15·4	176·5	340·9	44·5
	Total...	482·5	21·9	2791·9	1307·0	928·7	513·8	8266·8	14312·6	1872·0

VITAL STATISTICS.

TABLE XXXI.—DEATHS.

Return shewing the Total of monthly registration of Births and Deaths in the City of Madras, for the year 1880, arranged according to Division.

Municipal Divisions.	Names of Villages.	Population.	January.		February.		March.		April.	
			Births.	Deaths.	Births.	Deaths.	Births.	Deaths.	Births.	Deaths.
1	Tondiarpettah	35,240	23	13	9	21	2	5	25	17
	Washermenpettah	6,409	152	129	90	106	117	98	87	89
	Royapuram	11,089	96	67	65	43	67	79	47	57
	Cashmode	12,383	47	65	27	42	138	38	36	35
	Total...	65,121	318	279	191	212	224	220	195	198
2	Peddoo Naick's Pettah	65,629	183	290	168	238	200	224	175	231
	Big Parcherry	5,179	...	3	...	6	...	3	...	...
	John Pereira's Garden	2,930	...	3	...	1	...	...	...	...
	Total...	73,738	183	296	168	245	200	227	175	231
3	Moothealpettah	32,062	149	160	142	154	130	164	145	124
	Uttapaulium	18,895	...	...	...	...	...	...	...	...
	Fort Saint George	1,588	...	1	...	...	...	...	...	...
	Total...	52,545	149	161	142	154	130	164	145	124
4	Gunpowder Mills	641	2	1	...	...	...	...	...	...
	Perambore	5,650	20	23	19	31	28	18	25	28
	Viasarapaudy	3,500	11	8	4	4	5	5	14	4
	Total...	9,791	33	32	23	35	33	23	39	32
5	Choolay	15,000	29	50	39	41	35	41	31	50
	Pursewalkum	19,006	33	74	62	64	65	74	64	64
	Pareamettoo ... ... }	11,275	18	15	9	17	18	22	22	20
	New Town ... ... }		...	12	...	5	1	2	...	3
	Vepery	4,500	11	10	4	9	6	5	8	9
	Poodoopettah	3,774	18	22	22	20	12	14	17	12
	Egmore	4,392	11	8	22	11	18	6	16	10
	Comaleeswarapuram	7,544	17	14	11	15	10	6	11	12
	Total...	65,491	187	205	169	182	165	170	169	180
6	Kilpaukum	5,222	9	4	11	5	14	12	10	7
	Chetput	2,611	16	...	13	1	21	5	10	...
	Nungumbaukum	7,704	40	15	33	10	28	10	35	17
	Mackey's Garden	3,853	12	5	24	5	23	7	14	1
	Total...	19,390	77	24	81	21	86	34	69	25
7	Poodoopaukum	6,087	19	28	33	39	29	37	14	34
	Chintadripettah	15,120	67	69	38	38	39	50	35	47
	Narasingapuram	3,046	7	9	3	9	1	7	3	7
	Triplicane	33,253	96	130	77	145	102	164	101	150
	Theeroovateeswaranpettah... ...	12,057	14	15	19	18	11	30	22	19
	Total...	69,568	203	251	170	249	132	288	175	257
8	Saint Thomé	20,575	70	70	53	55	43	64	58	46
	Alwarpettah...	1,163	5	15	10	10	8	9	5	5
	Royapettah	5,255	19	18	29	23	17	24	26	23
	Meersaib'sPettah	2,050	11	8	11	9	17	17	16	10
	Kistnampettah	5,193	9	26	12	15	14	10	10	13
	Thanampettah	7,246	15	9	17	16	12	10	6	10
	Total...	41,482	129	146	132	128	111	134	121	107
	General Total...	397,126	1,279	1,394	1,076	1,226	1,131	1,260	1,088	1,154
Hospitals.	Monegar Choultry Hospital ...	426	...	48	...	29	...	23	...	25
	General Hospital	...	...	21	1	26	...	16	...	15
	Lock Hospital	...	...	...	...	...	...	1	...	...
	Hospital for Women and Children ...	...	...	5	...	6	...	6	...	4
	Lying-in Hospital	...	129	13	93	5	108	8	101	15
	Penitentiary Hospital	...	...	4	1	2	...	1	...	4
	Lunatic Asylum	...	...	2	...	4	...	2	...	2
	Royapettah Hospital	...	...	8	...	3	...	4	...	5
	Total...	426	129	101	95	75	108	61	101	70
	General Total...	397,552	1,408	1,495	1,171	1,301	1,239	1,321	1,189	1,224

VITAL STATISTICS.

TABLE XXXI.—DEATHS.—(*Continued.*)

Return shewing the Total of monthly registration of Births and Deaths in the City of Madras, for the year 1880, *arranged according to Division.*

Municipal Divisions.	Names of Villages.	May.		June.		July.		August.		September.	
		Births.	Deaths.	Births.	Deaths.	Births.	Deaths.	Births.	Deaths.	Births.	Deaths.
1	Tondiarpettah	15	11	15	14	11	24	15	4	11	14
	Washermenpettah... ...	110	74	103	75	123	71	126	70	115	79
	Royapuram...	70	49	61	51	84	56	69	66	82	42
	Cashmode	20	25	35	26	48	54	37	36	26	31
	Total...	215	159	214	166	266	205	247	186	234	166
2	Peddoo Naick's Pettah ...	206	227	223	187	193	189	241	264	220	241
	Big Parcherry	...	...	...	...	...	...	...	...	...	...
	John Pereira's Garden ...	...	...	...	...	...	...	...	...	...	...
	Total...	206	227	223	187	193	189	241	264	220	241
3	Moothealpettah	164	133	177	137	169	108	199	148	172	155
	Uttapaulium	...	...	...	...	...	...	...	...	...	...
	Fort Saint George... ...	...	...	...	1	...	...	...	...	1	...
	Total...	164	133	177	138	169	108	199	148	173	155
4	Gunpowder Mills	1	1	...	...	...	...	...	...	...	...
	Perambore	23	32	23	20	23	31	19	20	22	24
	Viasarapandy	10	5	12	8	10	3	9	14	4	3
	Total...	34	38	35	28	33	34	28	34	26	27
5	Choolay	40	31	30	45	38	56	41	57	46	43
	Pursewalkum	49	59	61	43	73	67	73	55	69	51
	Pareamettoo	18	26	26	20	13	20	24	20	21	20
	New Town	...	...	...	...	...	2	2	2	1	1
	Vepery	9	6	10	9	5	8	6	6	17	9
	Poodoopettah	11	11	9	13	11	12	18	14	17	88
	Egmore	16	6	16	13	18	8	7	12	12	11
	Comaleeswarapuram ...	13	9	10	15	12	6	10	14	14	8
	Total...	156	148	162	158	170	179	181	180	197	161
6	Kilpaukum	9	5	4	1	11	5	3	4	8	6
	Chetput	11	2	12	7	12	3	10	1	7	8
	Nungumbaukum ... —	27	13	25	25	16	14	24	13	13	9
	Mackey's Garden	7	8	5	3	10	5	10	2	7	5
	Total...	54	33	46	36	49	27	47	20	35	28
7	Poodoopaukum	32	27	25	28	43	17	29	32	32	25
	Chintadripettah	43	52	39	32	44	51	51	51	49	47
	Narasingapuram	6	9	8	14	7	12	1	12	3	5
	Triplicane	117	137	116	104	114	112	110	121	98	106
	Theeroovateeswaranpettah	13	14	16	11	15	14	18	20	12	10
	Total...	211	239	194	189	223	206	209	236	194	193
8	Saint Thomé	51	46	69	49	66	61	60	58	65	56
	Alwarpettah	6	7	11	5	2	8	8	7	8	8
	Royapettah...	23	22	13	9	21	16	26	15	17	15
	Meersaib's Pettah ...	8	8	12	14	15	9	14	9	10	10
	Kistnampettah	16	16	10	7	10	11	13	10	19	15
	Thanampettah	13	17	14	10	15	9	14	14	15	13
	Total...	117	116	134	94	129	114	135	113	134	117
	General Total...	1,157	1,093	1,185	996	1,232	1,062	1,287	1,181	1,213	1,088
Hospitals	Monegar Choultry Hospital.	7	24	23	31	40	29	30	17	40	37
	General Hospital ...	...	26	3	24	...	17	1	7	2	19
	Lock Hospital ...	...	...	...	...	...	...	...	...	...	...
	Hospital for Women and Children	...	7	...	3	...	2	...	1	...	5
	Lying-in-Hospital... ...	113	21	112	9	113	5	109	3	133	12
	Penitentiary Hospital ...	2	4	...	...	...	1	...	...	...	...
	Lunatic Asylum	...	2	...	1	...	5	...	2	...	3
	Royapettah Hospital ...	...	8	...	5	...	1	...	6	...	4
	Total...	122	92	138	73	153	60	140	46	175	80
	General Total...	1,279	1,185	1,323	1,069	1,385	1,122	1,427	1,227	1,388	1,168

VITAL STATISTICS.

TABLE XXXI.—DEATHS.—(*Concluded.*)

Return shewing the Total of monthly registration of Births and Deaths in the City of Madras, for the year 1880. *arranged according to Division.*

Municipal Divisions.	Names of Villages	October.		November.		December.		Total.		Ratio per 1,000 of population.	
		Births.	Deaths.	Births.	Deaths.	Births.	Deaths.	Births.	Deaths.	Births.	Deaths.
1	Tondiarpettah	21	10	19	11	14	12	180	161	38·0	29·7
	Washermenpettah ...	133	92	128	89	120	94	1,404	1,076		
	Royapuram ...	58	38	62	52	78	74	839	674	74·7	60·7
	Cashmode	29	36	48	51	35	39	426	478	34·4	38·6
	Total...	241	176	257	203	247	219	2,849	2,389	43·7	36·6
2	Peddoo Naick's Pettah ...	231	232	208	246	205	278	2,453	2,847	37·3	43·4
	Big Parcherry	...	...	...	...	...	...	...	12	...	2·3
	John Pereira's Garden ...	...	...	...	...	...	...	...	4	...	1·3
	Total...	231	232	208	246	205	278	2,453	2,863	33·2	38·8
3	Moothealpettah	179	170	176	140	167	215	1,969	1,808	61·4	56·3
	Uttapaulium	...	...	...	...	...	...	...	...		
	Fort St. George	...	1	...	...	...	1	1	4	0·6	2·5
	Total...	179	171	176	140	167	216	1,970	1,812	37·4	34·4
4	Gunpowder Mills ...	...	...	...	...	...	...	3	2	4·6	3·1
	Perambore	18	25	25	18	20	31	265	301	46·9	53·0
	Viasarapaudy	11	6	6	4	...	2	96	66	27·4	18·8
	Total...	29	31	31	22	20	33	364	369	37·1	37·6
5	Choolay...	35	35	54	52	42	40	460	541	30·6	36·0
	Pursewalkum	82	62	65	66	72	66	818	745	43·0	39·1
	Pareamettoo	88	28	13	13	27	22	227	243	20·5	24·3
	New Town	...	...	...	2	1	2	5	31		
	Vepery	11	8	11	12	8	5	106	96	23·5	21·3
	Poodoopettah	14	6	24	14	19	16	192	172	50·8	45·3
	Egmore...	5	10	20	7	12	15	173	117	27·6	22·3
	Comaleeswarapuram ...	24	15	21	19	4	17	157	150		
	Total...	189	164	208	185	185	183	2,138	2,095	32·6	31·9
6	Kilpaukum	7	4	2	5	7	3	95	61	18·1	11·6
	Chetput...	11	5	8	5	9	5	140	42	53·6	16·0
	Nungumbaukum	17	15	17	6	16	19	291	171	37·7	22·1
	Mackey's Garden ...	10	4	8	9	10	6	140	60	36·3	15·5
	Total...	45	28	35	25	42	33	666	334	34·3	17·2
7	Poodoopaukum	28	28	29	36	31	33	344	364	56·5	59·7
	Chintadripettah	57	44	46	42	49	57	557	580	36·8	38·3
	Narasingapuram	8	5	1	9	5	6	53	104	17·3	34·1
	Triplicane	110	103	117	109	115	130	1,263	1,511	37·9	45·7
	Theeroovateeswaranpettah..	15	13	18	10	17	14	190	188	15·7	15·5
	Total...	218	193	211	206	217	240	2,407	2,747	34·5	39·4
8	Saint Thomé	77	50	79	58	74	71	765	684	38·6	35·9
	Alwarpettah	5	6	3	4	5	13	76	97		
	Royapettah*	24	10	19	11	23	23	262	209	49·8	39·5
	Meersaib's Pettah ...	8	4	9	6	9	14	140	118	68·2	57·5
	Kistnampettah	8	11	19	10	10	9	150	153	23·3	29·4
	Thanampettah	13	14	11	14	13	13	158	149	21·8	20·5
	Total...	135	95	140	103	134	143	1,551	1,410	37·3	33·9
	General Total...	1,267	1,090	1,266	1,130	1,217	1,345	14,393	14,019	36·2	35·3
Hospitals.	Monegar Choultry Hospital	45	42	36	41	41	34	262	380	615·0	892·0
	General Hospital ...	3	17	1	14	1	20	12	232	...	...
	Lock Hospital ...	...	...	...	...	...	...	...	1	...	...
	Hospital for Women and Children	...	2	...	5	...	7	...	53	...	...
	Lying-in-Hospital ...	140	7	130	5	121	9	1,402	112	...	...
	Penitentiary Hospital ...	...	1	...	...	...	...	3	17	...	...
	Lunatic Asylum	...	1	...	1	...	2	...	27	...	...
	Royapettah Hospital ...	...	7	...	6	...	9	...	66	...	...
	Total...	188	77	167	72	163	81	1,679	888	..	...
	General Total...	1,455	1,167	1,433	1,202	1,380	1,426	16,077	14,907	40·4	37·4

MUNICIPAL OFFICE,
Madras, 20th June 1881.

W. H. AXELBY,
Manager, Municipal Commission.

APPENDIX VI.

THE CENSUS OF MADRAS—1880-81.

1. A somewhat detailed account of the Census of the City of Madras is here recorded to simplify the arrangements that must be made on the occasion of the next Census. The chief preliminary difficulties of the Census now finished lay in the fact that there was no record showing the detailed arrangements that were made for the Census of 1871.

2. The first step consisted in numbering all the houses in the City and making an accurate list of the houses and streets.

3. The twenty Overseers, together with the two Assistant Engineers, were called together, and the plan upon which the numbering was to proceed was carefully explained to them by the President and the Vice-President. Printed instructions were issued of which a copy is annexed. [A].

4. A staff of 40 men acquainted with English, and 40 boys, were selected. Oil, paint, brushes and stencil plates were provided. Each man accompanied by a boy was told off by the Overseer to a particular street. The boy went in advance painting on the door of each house the black circle or ground on which the red figures were subsequently stenciled by the painter. The work was paid by results, namely, 11 annas for 60 houses. It was commenced on the 9th August 1880 and was finished on the 18th of the following month. The cost of the labor was Rs. 701-4-6 for 61,386 houses, and of the paint and other materials Rs. 553-9-7. The Regimental Lines and Railway and Canal buildings received at first only a single number, but the different houses within were subsequently marked with sub-numbers at a cost of Rs. 72-14-7.

5. Printed Sunnads of appointment in the annexed form were given to each painter, and the householders were warned not to deface the numbers. [B].

6. **SCHEDULES OR REGISTERS OF HOUSES.**—After the numbering was finished a register of houses was prepared in the annexed form.

II.—List of Buildings in Human Occupation, Houses, Shops, Temples, Mosques, Schools and Others in the City of Madras.

Name of Municipal Division.	Name of Municipal Ward and Villages and Hamlets comprised therein.	Name of Street.	No. of the Building.	Nature of the Building (here enter whether House, Shop, School, Temple, &c.)	Name of Occupant.
1	2	3	4	5	6

A staff of 45 men, chiefly the painters already employed, were engaged for this work which was paid at the rate of 8 annas per 50 houses and cost Rs. 613-4-8. Extracts from the House Registers were sent to the Railway and Canal authorities, the Commandants of Regiments, to the Salt Cotaurs, Gun Powder Mills, Government House, and other premises having minor buildings in addition to the main building.

7. **BLOCKS.**—For the purpose of the Census the whole City was divided into 300 blocks. In the populous parts of the City there were about 200 houses to a block, but in the suburban parts about 180 houses. The greatest number of

houses in any block was 228 and the lowest was 156. In order to retain as far as possible whole streets in each block, it was essential to make each block consist of so many streets and perhaps a portion of a street, not always contiguous. The blocks therefore were not and could not be definite areas within a single boundary line. After the details of the blocks were settled the House Registers were divided to correspond.

8. **SUPERVISOR'S LISTS.**—The twenty Municipal Overseers, each with an assistant, were appointed Supervisors, each Overseer within his own Ward. Lists for the Supervisors were prepared in the annexed form.

SUPERVISOR'S LIST.

List of Streets in Supervisor's Range in Ward of the Division of the City of Madras.

Name with Father's name, also occupation of Supervisor.	List of Streets comprised in Supervisor's Range sub-divided into the Enumerators' Blocks.						Remarks.
	Name of Ward.	Name of Street.	No. of Enumerator's Block.	Name with Father's name also occupation of Enumerator.	Number of Buildings as per Form II		
					Inhabited.	Uninhabited.	
1	2	3	4	5	9	7	8

9. **ENUMERATORS.**—Applications were then invited by advertisement for Enumerators. Six hundred applicants appeared at the Memorial Hall, and were selected primarily on production of a certificate giving proof of education and a knowledge of English. The selected men were further tested in the Memorial Hall and the inefficients were weeded out. The number selected was 300 Enumerators and 20 Assistant Supervisors. They were each promised a fee of Rs. 25 for the whole work, viz., Rs. 15 for the preliminary Census which occupied about a fortnight, and Rs. 10 for the final Census which occupied a day. The object of making the fee for the final work so much the greater by comparison was to ensure the attendance of all the Enumerators at the final Census when their previously acquired knowledge of the block they had to enumerate would be of the greatest value.

10. The Enumerators were appointed to the different blocks as far as practicable with reference to the locality in which they resided. They were all mustered in the Memorial Hall under their respective Overseers or Supervisors, and received oral instruction as to their duties, together with a copy of the printed rules. A blank schedule was given to each man with instructions to bring it back next day as a specimen filled up with information as regards the house he slept in. The specimens where then examined and errors, &c., pointed out to all. Two annas were given to each Enumerator to provide himself with pens, ink, &c. A Sunnad of appointment was also issued in the annexed form. [C].

11. Extracts from the House Register were issued to the Enumerators together with as many blank schedules as they were likely to require for the blocks they were to census. A large card-board with cross strings to which leaden weights were attached was given to each Enumerator to place the schedules upon. Each Enumerator then noted in pencil on each schedule the name of street, the consecutive number of the house, the name of the occupier, entering this information from the extract from the House Register issued to him.

12. Publicity was given to the forthcoming enumeration by advertisement in the newspapers, and by beat of tom-tom. The Police were requested to give assistance, if necessary.

13. The head officers of public Institutions such as Regimental Lines, Asylums, Emigration Depôts, Harbour Works, &c., and also the Managers of Hotels were requested to conduct the Census in these places as required by the Act.

14. The preliminary enumeration began on the 15th November 1880 and ended on the 30th November 1880, having thus taken 16 days. After the Enumerators had been sent out to do their work they were called into the Memorial Hall after completing about 30 houses to have their work examined and checked and errors pointed out.

15. After the completionof the work they were again called into the Memorial Hall, those for the northern half of the town on one day, and those for the southern half on another. The results were examined and checked where necessary by the Assistant Supervisors. The Supervisors and their assistants each checked 100 houses promiscuously selected. As the results were not regarded as satisfactory the Enumerators were made to exchange schedules and each man was ordered to test and check his neighbour's work by going to each house again. This check resulted in the discovery of over 8,000 persons omitted during the first enumeration. As this work was not included in the original stipulation, an additional fee of Rs. 5 was given to each Enumerator who took part in it.

16. No serious difficulty was experienced in conducting the Census. A few Mahomedans refused to give information until the consequences were explained to them. The Chepauk Agent had, at my request, obligingly written to all the chief Mahomedan families in Madras (Prince of Arcot, &c.), and had arranged to have a proper officer in each household to fill in the schedules. The good example thus given had an excellent effect among the Mahomedan community generally. The fishermen and boatmen caused a little trouble as it was difficult to get information in the absence of the men who were at home only on Sundays. Amongst the European community no difficulty was met with though there was some delay before the Club returns could be procured.

17. The preliminary Census of Regiments, Clubs, Hotels, &c., was conducted by the authorities or persons in charge. In every case without exception the schedules thus prepared had to be returned for revision and correction. This was partly due to the misleading character of the instructions on the schedules as to religion, &c., as compared with the printed rules.

18. Needless trouble was caused by the late issue of some of the rules, *e.g.*, as to profession and occupation, which were not received till after the preliminary Census was begun. In any future Census it should be a matter of course that all the rules and instructions relating to it, be issued with a clear interval before the preliminary Census work begins.

FINAL CENSUS.

19. The chief difficulty lay in securing a sufficient number of intelligent Enumerators acquainted with the locality they would have to census. All the work had to be done in a single day, and it was estimated that each Enumerator could dispose of about 70 houses. As there were 63,393 houses, the number of Enumerators required was about 905. 272 out of the original 300 Enumerators appeared and remained to the end. 28 new Enumerators were selected to take the place of the absentees and were paid Rs. 5 each. A further number of 193 Assistant Enumerators were then selected, each to be paid a fee of Rs. 4.

20. Some doubt was felt as to whether Government servants could safely be employed without special payment in the absence of direct control or authority over them. This fear happily proved groundless. A letter hereto appended was despatched to all heads of departments in Madras. [D].

To the appeal thus made the following practical response was obtained :—

Name of Department.	No. of Enumerators sent.	Name of Department.	No. of Enumerators sent.
Accountant General's Office ...	20	Inspector General, Madras Police.	4
Adjutant General's Office ...	6	Military Account Department—	
Army Clothing Agency Office ...	3	(a) Controller of Military Accounts ...	4
Board of Revenue ...	35	(b) Examiner of Ordnance Accounts ...	4
Collector of Madras ...	1	(c) Examiner of Medical Fund Accounts ...	6
Collector of Sea Customs ...	10	Municipal Office ...	38
Commissioner of Police ...	5	Ordnance Department—	
Commissary General's Office ...	6	(a) Inspector General of Ordnance and Magazines ...	12
Consulting Engr.'s Office, Railway	3	Postal Department—	
Court of Small Causes ...	35	(a) Postmaster General's Office..	10
Deputy Collector of Madras ...	40	(b) Post Office ...	2
Deputy Asst. Adjutant General...	2	Public Works Stores & Workshops	3
Director of Public Instruction ...	4	Quarter Master General's Office ...	5
Examiner of Public Works Accounts ...	15	Revenue Settlement Office ...	33
Government Central Book Depôt.	1	Revenue Survey Office ...	29
Government Central Museum ...	1	Sanitary Commissioner's Office ...	1
Government Office—		Superintendent of Stamps ...	8
(a) Secretariat Department ...	7	Superintendent of Family Payments and Pensions ...	2
(b) Revenue Department ...	14	Superintending Engineer, 1st Circle	3
(c) Military Department ...	7	Surgeon-General with the Government of Madras ...	4
(d) Printing Office ...	7		
(e) Public Works Department...	5		
Government Telegraph Dept. ...	5		
High Court of Judicature—			
(a) Original Side ...	8		
(b) Appellate Side ...	33		
(c) Administrator Genl.'s Office.	2		
(d) Insolvent Debtor's Office ...	2	Total...	445

21. Of the 445 men thus sent, 412 were selected. They were gathered together in the Memorial Hall on the 16th February 1881, and were then addressed by the President as to the detailed duties they were to perform, and an appeal was made to them to assist the Government in the successful completion of the work to which they were deputed. With the assistance of the Vice-President and the Assistant Engineers, and of the Overseers who were all ranged according to their divisions outside the Memorial Hall, the whole of the Government servants were allotted, first to the Wards or Circles, and secondly to the blocks in which they were to work.

22. The whole body of Supervisors and Enumerators were mustered again in the People's Park at 7 A.M. on the 17th February, no available building being large enough to receive them all at once. Each Overseer or Supervisor's position was indicated by a pole and a flag, of which there were 20, and the Enumerators thus readily ranged themselves under their respective Supervisors. The method adopted was to attach to each original Enumerator, who of course knew exactly the local details of his block, two Assistant Enumerators to assist him and to census such portion of the block as the original Enumerator might assign. The actual details of the division of the work was left to the men themselves.

23. A number of supernumerary applicants had been ordered to attend at the Park, and from them were selected a few men to fill up vacancies, and a reserve of 7 per cent. to be attached to each Supervisor and to attend him on the morning of the final Census in case of accident. Each of these men was promised Rs. 1 for attending the Supervisor on the final morning, and Rs. 4 if his services were actually required during the day.

24. The total staff for the final enumeration after all arrangements stood as follows:—

20 Supervisors (Municipal Overseers.)
20 Assistant Supervisors.
300 Original Enumerators, including substitutes.
605 Assistant Enumerators.
64 Reserve do.

25. An order of appointment as Enumerator was issued to each man together with two annas to purchase pens, ink, &c. On a future occasion these things should be provided by contract. Blank schedules were also distributed to the Enumerators in addition to the schedules of the preliminary Census. Some days prior to the final Census the schedules belonging to the houses of European residents and others were distributed to the householders with the printed instructions as to the method of filling up.

26. A letter was addressed to the various newspapers appealing to all persons to give the Census information to the Enumerator on his application without delay, and also to further the object in view in every way possible. A notice was issued by tom-tom requesting that an adult male person might be left in each house to give information until the Enumerator had called. The Chief Justice of Madras was good enough to close the High Court for two days to allow the numerous clerks of the Court to officiate as Enumerators, and the act was significant to the public of the importance attached to the Census. On the 18th February 1881 each Superintendent mustered all his Enumerators at 6 A.M. at a specified place before sending them off to their respective blocks. There was only one Enumerator absent out of the whole 905.

27. The Census proceeded throughout the day, and the President, Vice-Presidents, Assistant Engineers and a few European and native gentlemen who volunteered for the purpose paid occasional visits to note progress. In the evening at 6 P.M. all the Enumerators were again mustered at the same places and reported results to the Superintendents.

28. The schedules were left with the Enumerators till the 21st February in order that they might total up the population of the respective blocks. By the 23rd February all the schedules had been brought into the office. The schedules distributed to the householders were collected and brought in by the Enumerators of the block to which the house belonged.

29. No difficulty or opposition was experienced throughout the day of the final Census, and the whole of the work of the Enumerators was completed by the evening.

30. After the Census was over application was received from a few Government clerks for the pay of coolies engaged by them to carry the schedules for them, and also for carriage-hire to attend and receive instructions at the Memorial Hall, &c. These applications were not complied with.

31. The Marine Census was taken by the Master Attendant; the Railway Census by the Railway authorities; the travelling and houseless population by the Police; the Fort by the Deputy Assistant Adjutant General. The Fort, however, does not now lie within Municipal limits.

32. The results of the final Census as roughly ascertained in the office before

despatching the schedules to the Deputy Superintendent of Census were as follows :—

CENSUS OF 1881.

Statement showing the number of Houses and the Population with average number of persons to each house in each Ward of the Madras Municipality ; also the proportion of Males to Females, &c. &c., as compared with the results of 1871.

Division.	Ward.		Number of houses. Occupied.	Number of houses. Empty.	Number of houses. Total.	Population. Males.	Population. Females.	Population. Total.	Average of population to each house.	Average of population to each house exclusive of empty houses.	Proportion of Females to every 100 Males.	Percentage of the Divisional population to gross population.	Area in square miles.	Average population to each square mile.
1	East		3,135	805	3,940	9,110	9,667	18,777	4·8	6·0	106·1			
	Centre		4,070	978	5,048	15,072	16,017	31,089	6·2	7·7	106·2			
	West		2,574	923	3,497	6,728	7,252	13,980	4·0	5·4	107·7			
		1881...	9,779	2,706	12,485	30,910	32,936	63,846	5·1	6·5	106·6	16·0	5·31	12,023
		1871...	...	...	...	32,020	32,865	64,885	...	...	102·6	16·5	...	12,219
2	North		2,891	825	3,716	16,101	17,483	33,584	9·0	11·6	108·6			
	Centre... ...		2,443	1,047	3,490	11,562	12,497	24,059	6·9	9·9	108·1			
	South		1,793	1,578	3,371	9,723	10,019	19,742	5·9	11·0	103·1			
		1881...	7,127	3,450	10,577	37,386	39,999	77,385	7·3	10·8	106·9	19·5	0·74	1,04,574
		1871...	...	...	...	35,224	37,838	73,062	...	...	107·4	19·0	...	98,732
3	North		3,200	1,866	5,066	15,196	15,714	30,910	6·1	9·7	103·4			
	Centre... ...		1,560	723	2,283	7,203	7,835	15,088	6·6	9·6	108·8			
	South		528	483	1,011	2,704	2,707	5,411	5·3	10·2	100·1			
		1881...	5,288	3,072	8,360	25,103	26,256	51,359	6·1	9·7	104·5	12·9	0·91	56,438
		1871...	...	...	...	25,485	26,612	52,097	...	...	104·4	12·9	...	57,249
4	1881		1,484	448	1,932	5,359	5,422	10,781	5·6	7·2	101·2	2·7	3·88	2,778
	1871		...	...	...	4,898	4,803	9,701	...	...	98.1	2·5	...	2,500
5	North		3,643	531	4,174	13,118	13,517	26,635	6·4	7·3	103·0			
	Centre... ...		2,538	1,077	3,615	12,039	11,811	23,850	6·6	9·6	98·1			
	South		1,547	255	1,802	8,057	8,038	16,095	8·9	10·4	99·9			
		1881...	7,728	1,863	9,591	33,214	33,366	66,580	6·9	8·6	100·4	16·7	2·44	27,287
		1871...	...	...	...	31,573	33,328	64,901	...	...	105·5	16·5	...	26,598
6	North		1,125	166	1,291	3,905	3,792	7,697	5·9	6·8	97·1			
	South		1,157	156	1,313	5,425	5,779	11,204	8·5	9·7	106·5			
		1881...	2,282	322	2,604	9,330	9,571	18,901	7·3	8·2	102·6	4·8	4·16	4,541
		1871...	...	...	...	9,450	9,771	19,221	...	...	103·4	4·8	...	4,620
7	North		2,031	732	2,763	9,100	10,133	19,233	6·9	9·5	111·3			
	Centre... ...		3,749	1,738	5,487	13,353	15,268	28,621	5·2	7·6	114·3			
	South		2,996	699	3,695	11,225	11,989	23,214	6·3	7·8	106·8			
		1881...	8,776	3,169	11,945	33,678	37,390	71,068	5·9	7·9	111·0	17·9	1·32	53,839
		1871...	...	..	...	33,048	35,892	68,940	...	...	108·6	17·4	...	52,227
8	North		3,030	635	3,665	11,143	11,920	23,063	6·3	7·6	106·9			
	South		1,911	323	2,234	7,512	7,417	14,929	6·7	7·8	98·7			
		1881...	4,941	958	5,899	13,655	19,337	37,992	6·4	7·7	103·5	9·5	4·40	8,634
		1871..	...	...	...	20,226	20,887	41,113	...	...	103·2	10·4	...	9,344
	Total...	1881...	47,405	15,988	63,393	1,93,635	2,04,277	3,97,912	6·3	8·4	105·5	100	23·16 +3·66 Esplanades	17,181
		1871...	...	...	...	1,91,924	2,01,996	3,93,920	...	...	105·2	100	26·82	17,008

	1881. Males.	1881. Females.	1881. Total.	1871. Males.	1871. Females.	1871. Total.
House Population as above	1,93,635	2,04,277	3,97,912	1,91,924	2,01,996	3,92,332
Fort Saint George	830	331	1,161	...	...	1,588
Houseless Poor and Travelling Population ...	4,204	1,299	5,503	2,752	880	3,632
Marine Population	1,023	40	1,068	Omitted in 1871.		
Canal and Travelling Population	311	4	315	...	...	...
Railway do. do.	116	42	158	...	...	...
Total ..	2,00,124	2,05,993	4,06,117	1,94,676	2,02,876	3,97,552

33. The results above given may be regarded as fairly accurate and exhibiting with a near approximation to truth the actual population of Madras. The proportion of males to females is maintained in most of the Wards or Circles. In the 6th Division North Ward are large numbers of the digger caste whose women live elsewhere. Allowing however for a possible error where the males and females are in undue proportions, it will be seen that no large alteration in the totals would occur. The total of course errs by defect. A common superstition among the poorer classes may be noted that it is not lucky to give the names of all the residents of a house.

34. The chief comment to be made on the arrangements for the Census is that the preliminary and the final Census should not have been so far apart. Whatever may be necessary in the country, there is no doubt that in a large city the final Census should immediately follow the preliminary Census. There would then be no need for confusing rules as to the persons to be omitted from the preliminary Census. All would be entered and sooner the final Census followed the fewer would be the corrections and alterations.

35. The schedule columns for Religion and Caste were confusing. The heading over both columns 6 and 7 was Religion, while column 6 was also specially headed Religion. The arrangement was imperfect for all religions, but specially so for the Christian.

36. The whole staff, not only the permanent Municipal staff but also the Enumerators paid and unpaid, did their work on the whole intelligently and well. The only paid servants were those Enumerators who were not servants of Government.

MADRAS, *June 14th*, 1881.

A. T. ARUNDEL,
Acting President.

A.

MADRAS MUNICIPAL CENSUS.

Rules to be observed by those engaged in Numbering the Houses.

At the beginning of the operation of painting the doors each Overseer will be allotted two men and two boys.

It will be the duty of the Overseer to see that the men and boys attend regularly.

Each man and each boy will receive one brush, one set of stencil plates, one pot full of paint which will last them one week (or an average of 60 houses per day).

The Overseer will forward by a Peon the pots to the Workshop at 3 P.M. each Saturday, and they will then be filled and returned by the Peon and will be handed over by the Overseer to the men and boys engaged in numbering on Monday morning following.

Each man and boy will commence work at 6 A.M. daily or as soon thereafter as possible.

Each man and boy will be under the direct orders of the Overseer, and any one refusing to obey his orders will be dismissed.

Each man and boy will be required to paint the numbers on about 60 houses except in special circumstances which may be brought to notice, and for this work the man will be paid 8 annas and each boy will be paid 3 annas. Payment will be made fortnightly on the Overseer's report as to the numbers finished by each man and boy.

The boy will precede the man painting the circle in which the numbers are to be and grounding the same with black paint, thus:—

The new numbers will be painted over the old Census numbers where these exist.

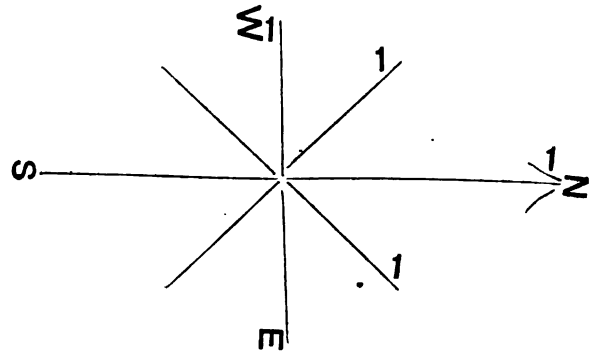
They may be known by the red ground and green figures.

The Overseers will observe the following rules:—

The first street to be numbered is that furthest to the west of their Ward. Where such street is divided longitudinally between two Overseers, it will be decided by the Vice-President in which Ward it is to be for Census purposes.

The streets running north and south (or those which are nearest to this direction) will be numbered first, *i.e.*, before those running west and east, &c. The streets running east and west will be numbered last, and the first of these streets to be numbered is the one furthest to the north. All numbering will commence

At the north in the N. and S. streets.
At the west in the E. and W. streets.
At the N. W. in the N. W. and S. E. streets.
At the N. E. in the N. E. and S. W. streets.



Thus number 1 will be at the point indicated as above.

The streets will be numbered with odd numbers on the right hand side facing towards the further end of the street away from where No. 1 is to be placed. The even numbers will be on the left hand side. Sometimes the even numbers in a street will be in excess and sometmes the odd numbers.

A house may be defined as a building in which one or more persons ordinarily sleep. Out-houses attached to a house or bungalow and included within the same compound wall need not be numbered separately.

Railway Stations, Hospitals, Barrack Lines, Jails, Schools and such buildings will be treated as one house. Each Overseer will be provided with a book in the following form which he will fill in as each street is finished, and he will certify at the end of such book when the numbering is all completed that all the streets in his Ward have been included and numbered as above.

MUNICIPAL CENSUS.

House Numbering.

Name of Street.	Side of street.	Last Odd No.	Side of street.	Last Even No.	Total houses on two sides.	Remarks.
John Pereiras.....	S	29	N	20	25	
Popham's Broadway.....	W	201	E	386	294	

To ascertain the total number of houses in each street, add one to the total of the odd and even numbers and divide by two, *e.g.*, $29 + 20 + 1 = \frac{50}{2} = 25$.

In Parcherries and other places which have not regularly defined streets, each hut or building may be numbered straight on with odd or even numbers according to the side of the main street or road on which the Parcherry is.

The men who number the houses must be particular in seeing that no house is omitted, and that no house is numbered more than once. A fine of 2 annas will be levied both on the Overseer, and on the Painter for each house missed or for any house numbered twice, and a similar reward will be paid to the person employed hereafter to check the work.

The Overseers are particularly cautioned that the correct result of the Census will materially depend on their endeavours to finish the numbering correctly, and every care must be taken to see the above orders carried out.

When the Overseer is in doubt as to any matter connected with the numbering, he will apply for advice at once to the Vice-President.

In the absence of the Vice-President communications as to the Census will be forwarded to the President through the Assistant Engineer.

MADRAS,
5th August 1880.

(Signed) J. A. JONES,
Vice-President.

B.

MADRAS MUNICIPALITY.

MR. _____

is authorized to affix numbers on the doors or sides of buildings or at the entrance of the enclosures of buildings.

These numbers are required to enable the Enumerators of the Census to be taken in November, to do their work efficiently and all householders are requested to facilitate the work of the painters.

Section 289 of the Municipal Act is as follows:—

289. The President may, from time to time, fix a number in a conspicuous place on the outer door or side of any building, or at the entrance of the enclosure thereof fronting the street.

Numbers on buildings.

Whoever destroys, pulls down, damages or defaces any such number shall be liable to a fine not exceeding twenty Rupees.

Penalty for defacing.

MUNICIPAL OFFICE,
MADRAS, *August* 1880.

A. T. ARUNDEL,
Acting President, Municipal Commission.

C.

MUNICIPALITY OF MADRAS.

CENSUS.

has been appointed an Enumerator for the Census of Madras, and is hereby empowered to deliver schedules to be filled by householders and to call for the same again, and to obtain all information necessary for accurately filling up the said schedules.

If any person desires to retain the schedule and fill it in himself the Enumerator shall leave the schedule with such person and shall call for it at the earliest opportunity.

SECTION 384, ACT V OF 1878.

"Any person wilfully neglecting or refusing correctly to fill up and affix his signature or mark to any such Schedule or Return so left at his place of residence, or who wilfully neglects or refuses to return the same to the Enumerator or other such person when called upon so to do, or to furnish the necessary information to such Enumerator or person to fill up the same for him if he do not know how to write, shall be liable to a fine not exceeding Two hundred Rupees, and may also be detained in custody until he correctly fills up and signs, or affixes his mark to the said Schedule or Return.

Such Enumerator or person shall, if required, fill up all Schedules or Returns for those who are unable to write."

A. T. ARUNDEL,
Acting President.

D.

MUNICIPAL OFFICE,
PUBLIC WORKS AND CONSERVANCY DEPARTMENT,
Madras, 7th February 1881.

From

A. T. ARUNDEL, ESQ.,
Acting President, Municipal Commission.

To _____

SIR,

With reference to the Notification dated 5th May 1880, published in the *Fort St. George Gazette*, page 202, and to G. O. No. 1,438, dated 29th September 1880, and G. O. No. 214, dated 1st February 1881, I have the honor to request that you will be good enough to assist me at the final enumeration for the Census by lending me the services of as many of your subordinates as you can spare, who are acquainted with English, to act as Enumerators on the 18th instant.

2. They will first be needed for a few hours on the 16th and 17th February at the Memorial Hall to be instructed in their duties. On the morning of Friday the 18th, they will have to go from house to house through an assigned block or quarter of the Town with the Census Schedules that have already been filled in, and make such additions and alterations therein as will make the schedules a correct return of the persons who slept in each house on the preceding night. Each Enumerator will have about one hundred houses allotted to him to visit, and will, it is expected, complete his work before the evening of the 18th.

3. I beg that you will be good enough to favor me at your earliest convenience with a list giving the names and addresses of such subordinates as you can spare, and who can be relied on to carry out the work entrusted to them. They should be instructed to report themselves to me at the Memorial Hall on Wednesday the 16th instant at 11 A.M.

I have the honor to be,
Sir,
Your most obedient servant,
A. T. ARUNDEL,
Acting President, Municipal Commission.